

CONFIDENTIAL

Release Date

5-2-81

P-W

Crest Oil #1 Spurlock
SW NE 3-17N-26E Apache County

s1

(over) Release Date 5-2-67

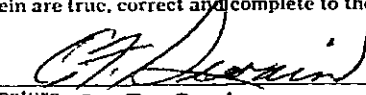
Release Date 5-2-69

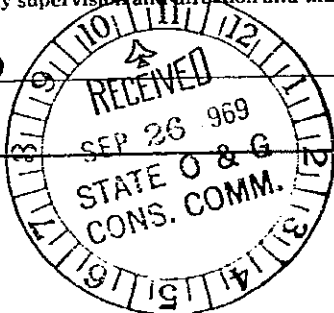
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DATE STARTED - COMPLETED		WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

ADDITIONAL INFORMATION

PLUGGING RECORD					
Operator Crest Oil Company			Address P. O. Box 57 Alton, Ill. 62002		
Federal, State, or Indian Lease Number, or lessor's name if fee lease. R. C. Spurlock & Sons		Well No. 1	Field & Reservoir Wildcat		
Location of Well 1980' FNL & 1980' FEL			Sec-Twp-Rge or Block & Survey 3-17N-26E	County Apache	
Application to drill this well was filed in name of Crest Oil Company		Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) _____ Gas (MCF/day) _____ Dry? Yes		
Date plugged: September 2, 1969		Total depth Original 3781' Plug Back 1568' Plug Back 956'	Amount well producing when plugged: Oil (bbls/day) -0- Gas (MCF/day) -0- Water (bbls/day) -2-1/2-		
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement		
No oil or gas			Cement wiper plug at 1568'		
Shinarump open to well bore		852-922	"Go" cast iron bridging plug at 1000'. Cement wiper plug at 956'		
			Casing filled with cement from T.D. to surf/90 sacks		
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (Shot, ripped, etc.)	Packers and shoes
10-3/4"	123'	None	123'	None	None...Cemented 125 sacks
4-1/2"	1602'	None	1602'	None	Halliburton formation
					Packer shoe. Cemented 50 Sacks
Was well filled with mud-laden fluid, according to regulations? Yes			Indicate deepest formation containing fresh water. No fresh water zones		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
State Of Arizona	Phoenix, Arizona		N - S - E - W		
Crest Oil Company	Alton, Illinois		" " " "		
(Lessee)					
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Sole Owner</u> of the <u>Crest Oil</u> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date 9/19/69		Signature  C. F. Swain			
Permit No. 442			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
			Form No. 10		



APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
 OPERATOR C. F. Swain, d/b/a Crest Oil Co. ADDRESS P. O. Box 57 Alton, Ill. 62002
 Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease R. C. Spurlock & Sons WELL NO. #1
 SURVEY _____ SECTION 3 COUNTY Apache
 LOCATION 1980' FNL & 1980' FEL Section 3-T17N-R26E

TYPE OF WELL Dry Hole TOTAL DEPTH 3781'
 (Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
 GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD 10-3/4" casing from surface to 123' cemented/125 sacks
4-1/2" casing from surface to 1602' cemented/50 sacks
Plugged back with "Go" casing bridge packer set @ 1000'
Shot 2 cementing holes @ 993' and cemented/35 sacks
Total depth after plug back and cement is now 957'

2. FULL DETAILS OF PROPOSED PLAN OF WORK

Leave all casing in the hole
Fill casing with cement from total depth to surface
Affix abandoned well marker
Backfill all pits and clean up location

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS August 20, 1969

NAME OF PERSON DOING WORK Mesa Field Service, Inc. ADDRESS Farmington, New Mexico

CORRESPONDENCE SHOULD BE SENT TO C. F. Swain, Crest Oil Company

Name

Owner

Title

P. O. Box 57 Alton, Illinois 62002

Address

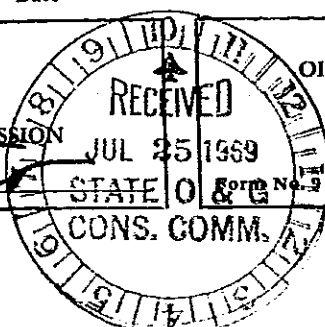
23 July, 1969

Date

Date Approved 7-25-69
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION

By: John Bannister
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION

Permit No. #442



STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 File Two Copies

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well (Granite)
 3. Well Name Crest Oil #1 Spurlock
 Location 1980' FNL and 1980' FEL (SW/4 NE/4)
 Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons

5. Field or Pool Name Wildcat

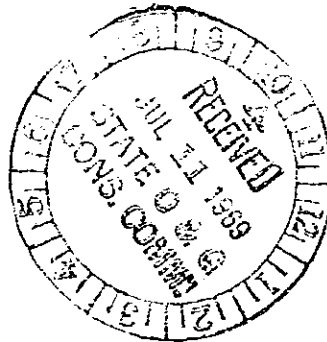
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 4
1. No additional work has been performed on this well since sundry notices form filed 5/31/69.
 2. Well is under temporarily abandoned status as approved by the Commission on 6/16/69 until 9/20/69



8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 6/30/69
C. F. Swain, d/b/a Crest Oil Company

Permit No. #442

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File 2 Copies
 Form No. 25

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well (Granite)
 3. Well Name Crest-Spurlock #1
 Location 1980' FNL and 1980' FEL (SW/4 of NE/4)
 Sec. 3 Twp. 17N Rge. 26E County Apache
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <input type="checkbox"/>		(OTHER) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. No additional work has been performed on this well since sundry notices report filed 4/30/69.
2. Well is under temporarily abandoned status as approved by Commission on 3/31/69 until 6/20/69
3. As per conditions as cited in cover letter attached hereto, extension of temporarily abandoned status is requested.

until 9/20/69
APPROVED
 By J. Bannister
 Date 6/16/69
 OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1624 WEST ADAMS, SUITE 202
 PHOENIX, ARIZONA, 85007

8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title (Owner) Date 5/31/69
C. F. Swain, d/b/a Crest Oil Company

Permit No. #442

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
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SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well (Granite)

3. Well Name Crest-Spurlock #1

Location 1980' FNL and 1980' FEL (SW 1/4 of NE 1/4)

Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons

5. Field or Pool Name Wildcat

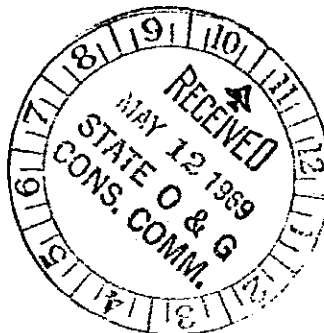
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SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. No additional work has been performed on this well since sundry notices report filed 3/22/69.
2. Well is under temporarily abandoned status as approved by Commission 3/31/69 until 6/20/69.



8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 4/30/69

C. F. Swain, d/b/a Crest Oil Company

Permit No. #442

Form No. 25

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

DRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, dba Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well (Granite)
 3. Well Name Crest-Spurlock #1
 Location 1980' FNL & 1980' FEL (SW/4 of NE/4)
 Sec. 3 Twp 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/> XX
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

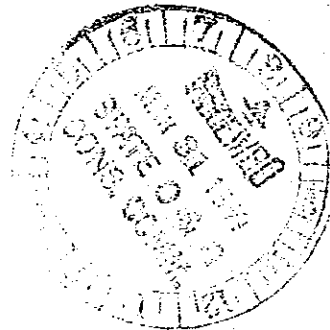
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7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. No additional work has been performed on this well since sundry notices report filed 2/18/69.
2. This well is presently in temporary abandon status due to expire 4/1/69.
3. Request that temporary abandon status be extended until 6/30/69 approximately 90 days, in order that additional work or possible plugging can be coordinated with other work planned in the area to commence during the month of June.

APPROVED
 By John Banquet
 Date 3/31/69

OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1024 WEST ADAMS - SUITE 202
 TELEPHONE 271-5161
 PHOENIX, ARIZONA, 85009



8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 3/22/69
 C. F. Swain, d/b/a Crest Oil Company

Permit No. #442

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
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SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
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 Location 1980' FNL & 1980' FEL (SW/4 of NE/4)
 Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
 FRACTURE TREAT ☐ DIRECTIONAL DRILL ☐
 SHOOT OR ACIDIZE ☐ PERFORATE CASING ☐
 REPAIR WELL ☐ CHANGE PLANS ☐
 (OTHER) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ MONTHLY PROGRESS ☒
 FRACTURE TREATMENT ☐ REPAIRING WELL ☐
 SHOOTING OR ACIDIZING ☐ ALTERING CASING ☐
 ABANDONMENT ☐
 (OTHER) Temporarily Abandoned ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. No additional work commenced since previous report dated 12/2/68 (Sundry Notices Form 25)
2. Gas analysis of sample recovered from Supai received from Bureau of Mines, Amarillo, Texas (See Item 10 previous report sub-item "c") Only trace of Helium gas; sample was 99.2% Nitrogen. Photocopy of said analysis attached.
3. Wish to leave well in Temporary Abandonment Status until anticipated work program can be commenced in Spring, at which time additional completion efforts will be commenced or well Plugged and Abandoned.

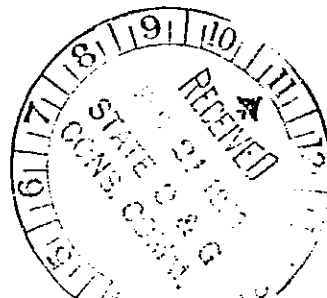
8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 2/18/69
C. F. Swain, d/b/a Crest Oil Company

Permit No. 442

Form No. 25

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
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Page Two

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well (Granite)

3. Well Name Crest-Sprulock #1

Location _____

Sec. _____ Twp. _____ Rge. _____ County _____

4. Federal, State or Indian Lease Number, or lessor's name if fee lease _____

5. Field or Pool Name _____

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Continued from Page One...

6. 11/22/68 continued; 2:00 P. M., Halliburton fractured/19,180 gals water & 16,000 lbs sand. Checked bottom and had 60' fill up/sand. Ran tubing to circulate sand out of hole. Circulated until 6:30 P. M.
7. 11/23/68, continued circulating hole until completely cleaned out. Raised tubing near top of perfs and started swabbing. Recovered approx 125 bbls.
8. Swabbed all day. Recovered approx 50 bbls. (11/24/68) No show gas.
9. Swabbed all day. Recovered approx 50 bbls. (11/25/68) No show gas.
10. REQUEST TEMPORARY ABANDONMENT *until 4/1/69*
- a. Fluid still coming back into hole while swabbing, but at slower rate. Quite costly to swab additional time estimated.
 - b. Drake crew wanting time off and weather showing signs of turn-bad. (18 miles South of Navajo in open country, poor roads, need to get big rig out and its equipment)
 - c. Not yet satisfied that Shinarump will be dry hole. Feel that size frack used @ injection rate of 33 bbls per minute could drive low pressure gas for long distance.
 - d. Wish to leave well with tubing in the hole, valves and pressure gauges on both casing and tubing, shut in. (Total tubing string is 839')
 - e. After receive analysis of gas sample taken from salt zone, and after finding if gas breaks thru in shinarump and pressures up, will make decision on plugging or further work.

8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 12/2/68

C. F. Swain, d/b/a Crest Oil Co.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

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Permit No. #442

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
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 Location 1980' FNL & 1980' FEL (SW/4 of NE/4)
 Sec. 3 Twp. 17N Rge. 26E County Apache
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Fee R. Ted Spurlock

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <input type="checkbox"/>		(OTHER) <u>Temporary Abandonment</u>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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1. Drake rig moved to location and rigged up over hole, 11/17/68
2. 11/18/68, fracked supai formation, Halliburton, 19,960 gals of water & 16,000 lbs sand. Flowed back approx 50bbls water; had approx 110' fill up of sand. Rigged up to sand pump but pump would not pick up sand. Rigged up to circulate sand from hole using rig pump and steel pit.
3. 11/19/68, circulated out sand through tubing and rigged up to swab. Swabbed down in 3-1/2 hours. Fill up after this 100' in 2 hours. Swab completely dry in 3 pulls of swab. Total fluid swabbed 10-15 bbls. Noted that casing annulus had built up pressure, 30 psi. No show of gas while swabbing tubing.
4. 11/20/68, swabbed all day long. Swab completely dry in 3 pulls. Wait 1 hour on fluid and then swab completely dry in 3 pulls & total of 100' of water) Total fluid swabbed all day 10 bbls. Took gas sample from casing annulus to have analyzed. (Had no show swabbing tubing)
5. 11/21/68, only 50' fill up of water overnight. No pressures. Swabbed dry in one pull. Filled hole with water. Setcast iron "Go" packer bridge plug in casing at 1000'. (Jet Tech, Farmington) Shot 2 cementing holes at 993' and Halliburton/35 sacks. Pumped plug down to 960'. (Above plug back as per verbal instructions 11/20/68)
6. WOC until 1:00 P. M. Jet Tech perforated 2 glass jets per ft from 852-860; 894-904; 912-922. (Continued on next page)

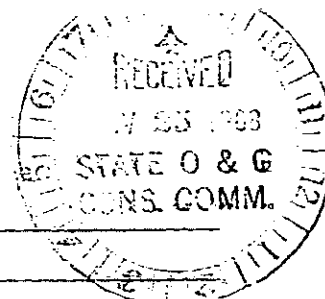
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C. F. Swain, d/b/a Crest Oil Co.

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SUNDY NOTICES AND REPORTS ON WELLS



1. Name of Operator C. F. Swain, D/B/A Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) (Wildcat Test Well)
 3. Well Name Crest-Spurlock #1
 Location 1980' FNL & 1980' FEL, SW/4 NE/4
 Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons (R. Ted Spurlock)

5. Field or Pool Name Wildcat Undesignated

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. Resumed operations Sunday 11/17/68
2. Fracked Supai formation through perforations at intervals from 1460 to 1546...18,000 gals of H₂O plus 1,050 gals to fill pipe and 1050 gals to flush, 16,000 lbs of 10-20 mesh sand, 10 gals Howco Suds. 11/18/68
3. Circulated hole to flush out returning frack sand, and swabbed hole from noon 11/18/68 through 11/20/68. No gas broke through and hole swabbed dry. Overnight fill 50 to 75 feet of frac load 11/19 and 11/20/68. Total recover of frac load only approx 5,000 gallons.

Proposed Program as discussed verbally 11/20/68:

***.. Casing in hole is 1602' of J-55 9.5 lb casing cemented/50 sacks. Estimated top of cement is 1210.

1. Set casing bridge plug @ 1020'
2. Perforate 2 cementing holes @ 1010'
3. Cement with 35 sacks 50/50 Poz Mix, 12-1/2% Gilsonite and 2% Bentonite per sack. Calculated top of cement will be 640'.
4. Perforate casing from 904'-914' and 922'-932' with 2holes per ft.
5. Frac with 16,000 gals of H₂O and 16,000 lbs 10-20 mesh sand
6. Swab back and test for gas.

8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title _____ Date 11/21/68
C. F. Swain, d/b/a Crest Oil Co

Permit No. 442

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies Form No. 25
--

HA - 1 (2/2/68)

REPORT OF ANALYSIS

F. S. - 11691 M.S. N-43225 ,H 0.00 OBS. PRES. 66.1 CAL. PRES. 65.9

STATE- ARIZONA

COUNTY- APACHE

FIELD- Wildcat

WELL NAME- SPURLOCK NO. 1

LOCATION- SEC. 3, T17N, R26E

OWNER- CREST - ARIZONA HELIUM

DATE COMPLETED- Temporarily Abandoned

DATE SAMPLED- 11/20/68

SAMPLED BY- C. F. Swain

NAME OF PRODUCING FORMATION- SUPAI

DEPTH IN FEET- 1450

THICKNESS IN FEET- 1460-1546'

SHUT IN WELLHEAD PRES., PSIG- 30 psi

OPEN FLOW, MCF/D- No sustained blow.....
Just about enough to recover
sample in cylinder.

CHECK OF DATA-
THE WELL DATA ARE ACCURATE, () WITHOUT CORRECTION, (XXX) AS CORRECTED ABOVE.

REMARKS-

ANALYSIS-

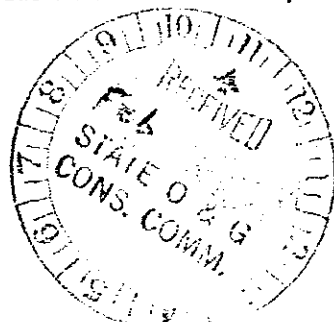
METHANE	0.0 %	NORMAL PENTANE	0.0 %	OXYGEN	0.0 %
ETHANE	0.0 %	ISOPENTANE	0.0 %	ARGON	.1 %
PROPANE	TRACE %	CYCLOPENTANE	0.0 %	HYDROGEN	.5 %
NORMAL BUTANE	0.0 %	HEXANES PLUS	0.0 %	H2S	0.0 %
ISOBUTANE	0.0 %	NITROGEN	99.2 %	CO2	0.0 %
SPECIFIC GRAV	.961			HELIUM	TRACE %
				TOTAL	99.8 %

CALCULATED GROSS BTU/CU. FT., DRY AT 60 DEG. F AND 30 IN. MERCURY-

2.

PERMISSION FOR RELEASE:

Permission is hereby granted for the Bureau of Mines to release the above data, together with similar data released by other operators as public information and as parts of a series of papers on analyses of gases from various fields, states, or regions.



COMPANY Crest Oil Company

BY

TITLE Owner

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG									
DESIGNATE TYPE OF COMPLETION:									
New Well <input checked="" type="checkbox"/>	Work-Over <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Reservoir <input type="checkbox"/>	Different Reservoir <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>	Dry <input checked="" type="checkbox"/>	
DESCRIPTION OF WELL AND LEASE									
Operator Crest Oil Company				Address P. O. Box 57 Alton, Ill. 62002					
Federal, State or Indian Lease Number or name of lessor if fee lease R. C. Spurlock & Sons				Well Number 1		Field & Reservoir Wildcat			
Location 1980' FNL & 1980' FEL				County Apache					
Sec. TWP-Range or Block & Survey Section 3-T17N-R26E									
Date spudded November 25, 1967		Date total depth reached Dec. 5, 1967		Date completed, ready to produce Dry: Plugged 9/2/69		Elevation (DF, RKB, RT or Gr.) 5961 GL		Elevation of casing hd. Range 5963	
Total depth 3781' (Schlum)		P.B.T.D. 1st... 1568'		Single, dual or triple completion? Single		If this is a dual or triple completion, furnish separate report for each completion.			
Producing interval (s) for this completion 1460'-1546' (Not Prod); 852'-922' (Not Prod)				Rotary tools used (interval) Surface to 3781'		Cable tools used (interval) None			
Was this well directionally drilled? No		Was directional survey made? No		Was copy of directional survey filed? No		Date filed			
Type of electrical or other logs run (check logs filed with the commission) Schlum-Induct-Elect; Gamma Ray-Induct; Bore Hole Compensated Sonic						Date filed All filed 12/8/68			
CASING RECORD									
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)									
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled			
Surface	13-3/4"	10-3/4"	32.75 lb	123' (GL)	125 sks	None			
Production	6-3/4"	4-1/2"	9.5 lb.	1602' "	50 sks	None			
TUBING RECORD (TUBING PULLED)									
Size EUE 2-3/8 in.	Depth set 1548 (1) 839 (2)	Packer set at None	Size ft.	Top None	Bottom ft.	Sacks cement	Screen (ft.)		
PERFORATION RECORD (Casing)									
Number per ft.	Size & type	Depth Interval	Amt. & kind of material used			Depth Interval			
2	3-1/2 Jets	(80 jets at spaced intervals) 1460'-1546'	Frac/20Mgal wtr & 16M lbs sand			(10-20 mesh) As perforated			
2	3-1/2 jets	852-60; 894-904; 912-22; 922-22	Frac/20Mgal wtr & 16M "10-20 sd.			As perforated			
INITIAL PRODUCTION PLUGGED CASING FROM T.D. TO SURF/90 SKS									
Date of first production No Production		Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Not produced... Dry Hole							
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)			
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio			
Disposition of gas (state whether vented, used for fuel or sold):									
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Sole Owner</u> of the <u>Crest Oil</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p> <p>Date <u>9/23/69</u> Signature <u>C. F. Swain</u></p>									
Permit No. 442				<p style="text-align: center;">STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION</p> <p style="text-align: center;">Well Completion or Recompletion Report and Well Log</p> <p style="text-align: center;">Form No. 4 File <u>One</u> Copies <u>25</u></p>					

DETAIL OF FORMATIONS PENETRATED			
Formation	Top	Bottom	Description*
Surface	0	100 (est)	<div> <div>COMPLETE SAMPLE ANALYSIS — E.A. Clement</div> <div>WITH DRILLING TIME AND LITHOLOGY</div> <div>AND SHOWS OF HELIUM OR NITROGEN</div> <div>GAS ATTACHED</div> </div>
Chinle	100(est)	810	
Shinarump	810	950	
Moenkopi	950	1020	
Coconino	1020	1387	
Supai	1387		
Top Salt	1460		
Base Salt	2084		
Granite Wash	3604	3717	
Pre-Cambrian	3717	3781 (T.D.)	
Drill Stem Tests: None			
Cores: None			

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

**LLIBURTON
COMPANY**

Alto Ticket No. CS 244487
Stage No. 2
Page No. 1

Halliburton District Permington
Halliburton Division Midland

Wildcat Sec. 3 Twp. 17N Rng. 26R County Apache State Arizona

THE FOLLOWING INFORMATION WAS FURNISHED BY THE WELL OWNER OR HIS AGENT:

Completed _____ Formation _____
 g: OD 4 1/2 Wt. 9.5 Depth 1569
 OD _____ From _____ To _____
 From 852 To 60 Shots/Ft. 2
 From 894 To 904 Shots/Ft. 2
 From 912 To 22 Shots/Ft. 2
 Note: Size _____ From _____ To _____

Prev. Treat: Date _____ Type _____
Fluid: Gal. _____ Sand: lb. _____
Pres. Treat: Interval: From _____ 852 To _____ 922
Tubing: Size _____ Depth _____
Packer: Type _____ Set at _____
Max. Allowable Pres.: PSI: Tubing _____ Casing _____ 3000
Treat Thru: Tubing ☐ Annulus ☐ Casing ☒ Tubing/Annulus ☐

TREATMENT SUMMARY

Job _____ MATERIALS USED
 Sandwater
 Water with Howco Suds
 Source Co. storage
 Viscosity CPS @ _____
 Grade 10-20 lb. 16,000 Sack ☐ Bulk ☒
 Grade lb. Sack ☐ Bulk ☒
 Content: Type Howco Suds Gal. 10 in Bbl. Gal. 18,
 Type Gal. %
 Loss Add.: Type Gal. lb.
 c Balls: Type RB-75 No. 36
 ng Agent: Type Gal. lb.
 g Agent: Type Gal. lb.
 r: Type Gal. lb.

Trucks (No. and Type) 1 HT-400

Hyd. HP Available 800 ordered Used 525

Pumps On Tubing _____ Casing 2

AVERAGE RATES—BPM

Treating _____ Displ. _____ Overall 33

PRESSURES—PSI 650 avg.

~~Breakdown~~ 1000 Maximum 650

Minimum 600 Displacement 650

Instant Shut-In 200 5 Min. 200

VOLUMES:

Load: Bbl. Gal. full Breakdown: Bbl. Gal. 700

Treatment: Bbl. Gal. 17,480 Displ.: Bbl. Gal. 1000

Total: Bbl. Gal. 19,180

TREATING LOG

WE	Operation or Amt. and Type Fluid Pumped	RATE	PUMPS	PRESSURE--PSI		REMARKS
				TUBING	CASING	
	Breakdown		1		1000	
10	Start sand at 1/2"	28	2		600	
11	Sand at 1"	32	2		650	
13	Trusting	32	2		650	
14	Drop 16 balls	33	2		650	
14 1/2	No ball action	33	2		650	
17	Drop 10 balls	33	2		650	
17 1/2	No ball action	33	2		650	
19	Drop 10 balls	33	2		650	
19 1/2	No ball action	33	2		650	
22	Start flush	33	2		650	
23	Job completed	33	2		650	

STOMER'S COPY

~~Company Representative Mr. Swain & Mr. Clement~~

Copies Requested

PRINTED IN U.S.A.

Telephone Doc Swain
Crest #1 Spudok 11-19-68
Drake on location. Fraked with
1800 gal/wtr. and 1600 # 10-20 mesh
sand plus 10 gal Howco Suds (a detergent
to slick up water - cut flow friction)
Well flowed back 50 bbls. wtr.; died;
now prep to circulate out sand
(about 100' of frack sand came
back into hole) and will then
swab.

40

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) _____
 3. Well Name Crest-Spurlock #1
 Location 1980' FNL & 1980' FEL, SW/4 NE/4
 Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. C. Spurlock & Sons (R. Ted Spurlock)

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

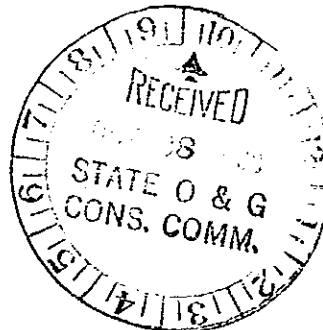
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. Completion of above Test well awaiting the completion of our present drilling program in Section 25-20N-27E. Hope to be able to resume completion efforts on this well (Crest-Spurlock #1) on or about November 1st to 10th. Respectfully request further extension of temporary abandonment status until present schedule in Sec 25-20-27 is finished. Plan to use same rig we obtain to complete Crest Arizona Helium #1 Santa Fe. Completion program remains as outlined on Form 25, dated 6/25/68.

APPROVED
 By Joh. P. Swain
 Date 10/28/68



8. I hereby certify that the foregoing is true and correct. Crest Oil Company

Signed C. F. Swain Title Owner Date 10/24/68

Permit No. 442

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well
 3. Well Name Crest-Spurlock #1
 Location 1980' FNL & 1980' FEL, SW NE
 Sec Sec 3 Twp 17N Rge 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. Ted Spurlock
 5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
 FRACTURE TREAT ☐ DIRECTIONAL DRILL ☐
 SHOOT OR ACIDIZE ☐ PERFORATE CASING ☐
 REPAIR WELL ☐ CHANGE PLANS ☐
 (OTHER) _____

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ MONTHLY PROGRESS ☐
 FRACTURE TREATMENT ☐ REPAIRING WELL ☐
 SHOOTING OR ACIDIZING ☐ ALTERING CASING ☐
 ABANDONMENT ☐
 (OTHER) Temporary Abandonment

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plan resumption of completion work as outlined on Sundry Notices and Reports on Wells Form No. 25 dated 6/25/68.

Date of resumption of work has been unavoidably detained due to extreme circumstances, and although I plan to be in the area doing additional work by mid-September, respectfully request extension of present temporary abandonment status until October 15th, 1968.

APPROVED

By _____
 Date _____

8. I hereby certify that the foregoing is true and correct.

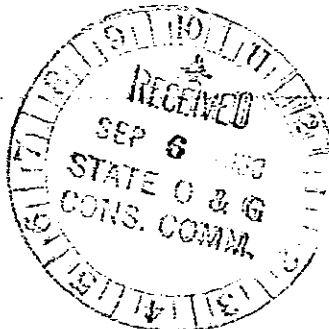
Signed C. F. Swain
 C. F. Swain, Crest Oil Co.

Title Owner Date 9/4/68

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies

Form No. 25

Permit No. #442



CONDY NOTICES AND REPORTS ON WELL

1. Name of Operator Crest Oil Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☐ (Specify) Test Well

3. Well Name Crest-Spurlock #1

Location 1980' FNL & 1980' FEL, SW NE

Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. Ted Spurlock

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input checked="" type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <u>Swab Test</u>		(OTHER) <u>Temporary Abandonment</u>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plan resumption of completion work approximately August 15th, 1968 as follows:

1. Swab hole to bottom and note returns, thru present perforations in Supai formation.
 - a. Sand/water/perf ball fracture treat Supai, dependent on conditions when completion efforts are resumed.
 - b. If gas (helium-bearing) is not recovered in commercial quantities thru completion efforts in Supai,:
 1. Plug hole back to approximately 50' below base of "Shinarump" sand.
 2. Perforate casing and cement/approx 50 sacks, pump plug down.
 3. Perforate casing and sand/water fracture treat desired zone.
 4. Swab hole and test for gas.
 5. If non-commercial, request permission from commission and plug and abandon as prescribed.

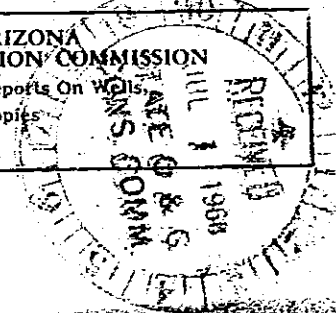
Will inform commission as soon as definite date has been set to resume operations.

8. I hereby certify that the foregoing is true and correct.

Signed C.F. Swain Title Owner Date 6/25/68
C.F. Swain, d/b/a Crest Oil Company

Permit No. #442

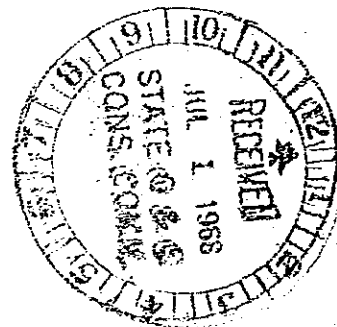
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25



COMPLETION REPORT

**ORREST OIL CO.
Great-Spurlock No. 1**

**Section 3-T17N-R26E
Apache County, Arizona**



**E. A. Clement
Consulting Geologist
Farmington, New Mexico**

June 6, 1968

Recd + APPROVED: 6/9/68
E. A. Clement

442

WELL DATA:

Operator: Crest Oil Co.
Box 57, Alton, Illinois

Well Name: Crest-Spurlock No. 1

Location: 1980' from the North line &
1980' from the East line of
Section 3, T17N, R26E
Apache County, Arizona

Elevation: 5961' Ground

Contractor: Aztec Well Service Co.
Aztec, New Mexico

Starting Date: May 17, 1968

Completion Date: June 2, 1968

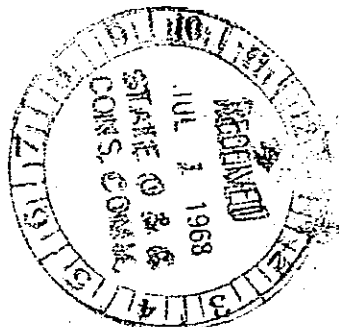
Casing Program: 4½" O.D., 9.5 lb. per ft.
from surface to 1602',
cemented with 50 sacks cement.

Logs: Jet Technical Services
Farmington, New Mexico
Cement log - Gamma Ray
correlation log.

Completion: Temporarily Abandoned

442

OK 6/9/68
CAB



#442 Crest #1 Spurlock

Telephone (5-30-68) from Dr. Sukin

- (1) Got 4 1/2" pipe down to T.D. after mud pump repaired
- (2) Cemented pipe & apparently have good bond
- (3) Perforated 1450' - 1550' (approx) with 80 shots
No shows - no blows
- (4) Swabbing.

May T & A again or P & A. If P & A to run mud to bottom of perfs - cement thru perfs - mud to top - Surface plug etc —

J.B.

Confidential

WELL SITE CHECK

5/22/68

By J.B.

Date 5-22-68

Contractor Aztec Well Svc. Co Person(s) Contacted Wayne Sandell
Aztec - N. Mex Dr. Swain

Spud Date _____

Type Rig Service Unit Rotary Cable Tool Present Operations _____

Samples _____

Pipe _____ Drilling with Air Mud

Water Zones _____ Size Hole _____

Lost Circ. Zones _____ Size Drill Pipe _____

Formation Tops _____ Type Bit _____

Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____

_____ Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Directions

From bridge turn left - go .4 mi & turn right, go .3 mi - cross cattle guard & turn right, go 9.5 miles to stock tank & windmill - turn right, go 2.9 miles to gate, go 2.3 miles to windmill, tank & pump turn right (go thru 2 gates), go 2.2 miles to tank & gate, .7 miles to rig.

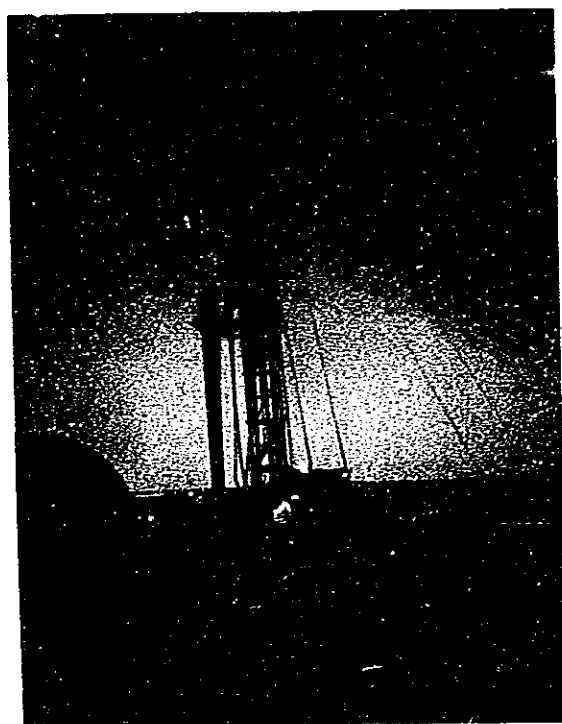
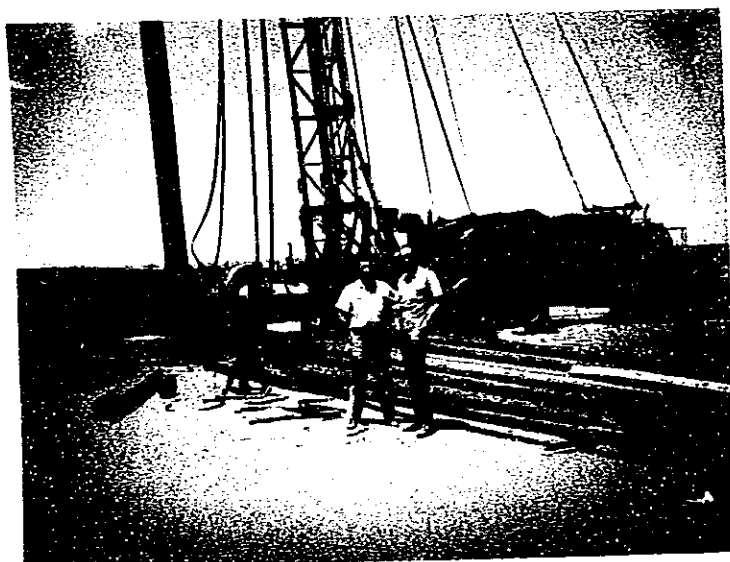
Repairing Mud Pump - Only 1/2" cable
to go back in 700'

WELL NAME

Crest #1 Spurlock
SW 1/4 NE 1/4 3-17N-26E

Permit No. 442

Confidential: ☒ Yes ☐ No



Crest Oil Co. No. 1 Crest-Spurlock

5-17-68 Aztec well Servicing, Ralph Denver, operator, left Farmington at 9 AM (Arizona time) & arrived at location at 2:45 PM - arrived at location at 4:30 PM & partially rigged up unit - left location at 7:45 PM.

5-18-68 7 AM to 7 PM - Finished rigging up - mixed 1 pit of mud - Ran drill collar, bit & 5 joints of tubing - hit bridge - drilled 6 joints down - Total in hole, 11 joints & drill collar.

5-19-68 7 AM to 7 PM - Drilled down 7 joints, (20 total in hole, 618') - pit filled with cuttings - dug earth pit - drained & shoveled out part of cuttings. Layed down power swivel pulled 10 joints tubing.

5-20-68 7 AM to 5 PM - Shoveled out remaining cuttings in pit - Jacked up & leveled mud pit. mixed 1/2 pit mud - (3' oil, 1 drum duratone, 5 sacks invernul, 1' attr, 2 sacks well nut hulls, 3 sacks mica) - Ran 7 joints tubing, hit bridge, drilled down 3 joints, could not get hole cleaned out past 200' (618') - mud thickened - then froster w/ back hoe dig 2 pits.

442



5-21-68 7 AM to 7 PM - Pulled tubing & bit, cleaned shale out of pit. mixed oil & 2 SKS invernul after dumping part of thickened mud. Ran & drilled down 30 ints, (618') - mixed water, oil & invernul, (5 SKS invernul, 10 bbls wtr.), to raise viscosity.

5-22-68 7 AM to 7 PM - Drilled down 3 ints. plus 5' on 24th int. (TD 682). would not drill further. mixed 2 SKS. invernul & 10 bbls. wtr. - oil would not stay mixed in mud. Pump not operating efficiently - Called Triple H to fix pump - called mud engineer.

5-23-68 7 AM to 8 PM - Pulled tubing & bit - mixed mud - 30 bbls. wtr., 5 SKS. invernul. Ran new bit, drill collar & 10 ints. tubing, hit bridge on No. 11 - replaced pump valve rubbers. Ran & drilled total of 26 ints. plus 9 ft. on #27 - Pulled out 4 ints. - Hung on 23 int. - could not circulate, turn bit or move pipe up or down.

5-24-68 7 AM to 4 PM - Pulled on & worked pipe - attempted to circulate & turn bit. Pumped mud pressure to 600 psi - would leak off to 300 psi when pump was stopped - worked pipe loose - Came out of hole - dumped all mud & cleaned bit to change to water base mud.

447

5-25-68 7 AM to 7 PM - mixed 28 sks. sel -
1 1/2 sks. CC 16 - 3 sks. CC 16 (sel),
with 3/4 pit of water ran in 14 ints.,
bit bridge, circulated & drilled down
17 ints. - mixed 1 additional sks. of
CC 16 - circulated & drilled down 28
ints. - Tied to take over 8 ints. to
leave for water - hung on 27th int -
could not pull - Ripped & mud pump -
could not circulate - pumped 1/2
pit mud (48 bbls) down hole with
no returns.

5-26-68 7 AM to 6 PM - mixed 1/2 pit mud
(8 sks. sel - 3 mica - 4 cellaphane shreds)
Pumped down hole - had returns for
5 min. after pumping down 16 bbls -
then no returns while pumping down
remainder of pit (32 bbls) -
mixed another 48 bbls (1/2 pit) of mud -
10 sks sel, 6 mica, 6 cellaphane shreds -
had returns in 5 min. - circulated for
30 min. - started in with tbug.
Circulated & drilled down 24 ints - remainder
of tbug. went from - ran 54 ints, tbug
1611' - circulated for 3 hrs. - added
2 sks CC 16 - Shut down for water
with all tbug. in hole.

5-27-68 7 AM to 7 PM - Circulated 2 hrs.
pulled tbug. & bit - came out free -
rigged up & ran 25 ints. hanging -
Had 2 tight places - casing stopped
going after 4 ft. on 36th int. -

442

4

5-27 (cont.) Total csng. in hole - 786 ft. -
 worked casing, circulated hole -
 mixed $\frac{1}{2}$ pit mud - (10 sacks sol & wtr.) -
 Hooked sand line to csng w/ switch block
 to pull down, could not move casing
 down hole - circulated 1 hr. shut
 down for nite

5-28-68 7 am to 7 pm - Repaired magno to on
 pump engine to get it started -
 circulated hole - hooked up power
 switch & attempted to drill & circulate
 csng. down - would not go -
 Pulled up & broke off 26th jnt -
 Rigged up & ran bit & tbug. down
 csng. to drill out bridge - drilled
 pin in csng & flat plug out of
 bottom - Drilled out 15' bridge below
 csng - Ran & drilled down 31 jnts -
 Went free after 28th jnt. - circulated
 1 hr. - pulled back into casing &
 shut down for nite.

csng. equipped
 w/ flat plug in
 bottom - cementing
 holes at top of
 bottom jnt. in
 steel bolt in
 top hole to stop
 rubber cementing
 upper plug.

5-29-68 7 am to 4:30 pm - circulated hole for
 2 hrs - pulled tbug & bit - started
 running casing - each jnt. had to
 be worked, spudded & dropped.
 Several times before it would go -
 completed running 51 jnts - 1602' of
4 1/2" - 9.5 lb. 8R casing - with metal
potat baskets at 1584 - 1578 - 1020 & 992 ft.
centralizers at 1540 - 1479 - 1418 - 930 - 864 & 802 ft.
 Cemented csng. w/ 50 sacks - followed plug with
 wire line & stopped plug at 1568' - 3 ft
 above top cementing hole - shut in csng.

(442)

5-29 (cont.) at surface - Plug down at 3:45 pm
S.D. for nite

5-30-68 7am to 5pm - Ran Jet Tech
cement log - top of cement at 1210'.
found rubber plug at 1559'. Ran
Gamma Ray correlation log from T D
to 650' - perforated 2 holes per
ft. with glass jets at 1460-66;
1476-86; 1506-14; 1522-32; 1540-46.
Started swabbing w/casing swab -
Ran swab for 5 hrs. - swabbed to
bottom - washed with wtr. & swabbed -
Recovered wtr - diesel oil & slight
amount of drilling mud - no gas show.

5-31-68 7am to 5:30 pm - Swabbed & washed
with wtr. - no shows - recov. muddy
wtr. Loaded 10 bbls fresh wtr - let
stand over - nite

6-1-68 7am to 12 noon - Pulled swab several
times - recovered all of wtr - no
gas shows - moved off rig - left
well shut in with gauge on tubing.

Beasley Hot Shot Serv. picked up
Triple A rental equipment & transported
to Farmington.

99 bbls diesel in Holiburton tank -
Approx. 300 bbls wtr in Dowell tank.

Approved: 6/9/68
C. J. Quinn

442

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Test Well
 3. Well Name Crest-Spurlock #1
 Location 1980' North and 1980' East, SW NE
 Sec. 3 Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease R. Ted Spurlock
 5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Temporary Abandonment</u>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Proposed Operations:

Drill cement plug from surface Casing
 Wash hole down to 1600'
 Run 1600' 4-1/2" casing
 Cement casing 300' from bottom up to 1300'
 Perforate casing in upper portion of "supai"
 Swab casing and test for gas.

If no commercial show obtained in Supai:

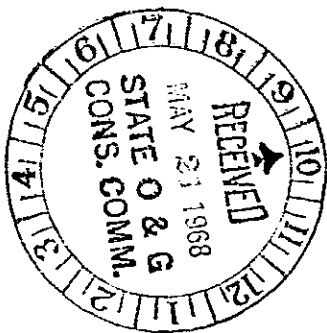
Set casing plug (below shinarump, above coconino)
 Perforate casing
 Cement zone of interest with enough cement to cover
 from perforations to 50' above top of shinarump.
 Perforate casing and test for gas.
 Fracture zone of interest with approx 400 bbls of
 H2O and 15,000 lbs sand.

please consider the above as Title Hole information.

8. I hereby certify that the foregoing is true and correct. C. F. Swain d/b/a Crest Oil Company
 Signed C. F. Swain Title Owner Date 5/18/68

Permit No. 442

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25



SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator C. F. Swain, d/b/a Crest Oil Company P. O. Box 57 Alton, Ill. 62002
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Possibly Helium-bearing....unknown until completion attempted.
 3. Well Name Crest-Spurlock #1
 Location 1980' from North Line and 1980' from East Line
 Sec. -3- Twp. 17N Rge. 26E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Fee R. Ted Spurlock

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <input type="checkbox"/>	<input checked="" type="checkbox"/>	(OTHER) <input type="checkbox"/>	<input type="checkbox"/>

Re-enter the well for additional test data, and completion attempt.

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

COMPLETED OPERATIONS TO DATE:

1. Drilled to T. D. of 3784' (driller) 3781' (Schlumberger), 12/5/67
 - a. 13-3/4" surface hole to 134' below K.B.
 - b. 6-3/4" hole from 134' to T. D.
 - c. Set 123' of 10-3/4 surface casing (123' below ground level) cemented with 125 sacks cement (2 A. M. 11/26/67) with 2% Calcium Chloride. (Cement circulated to surface) (Plug pumped/bottom.)
2. Electric Logs:
 - a. Induction-Electrical 130' to 1305'
 - b. Gamma Ray- Induction 850' to 3780'
 - c. Bore Hole Compensated Sonic 850' to 3780'
3. Completion of well temporarily held up.
 - a. Verbal permission of Commission requested December 4th, P. M.
 1. Instructed to leave hole full of its' drilling mud, and place a 20' cement plug from surface to 20', and surface capped.
 - b. Electric logs by Schlumberger completed December 5th A.M.
 1. After due deliberation it was decided by Operator to temporarily suspend further work on well, and Commission instructions as described 3-a-1 above were carried out. Circle A Rig released.

Proposed Plan to Reenter Well: (Soon as possible. ..estimated commencement Feb. 15-20, '68)

1. Drill Stem Test Supai formation (unable to do so during drilling)
2. Attempt completion in Supai or Shinarump, depending on test results.

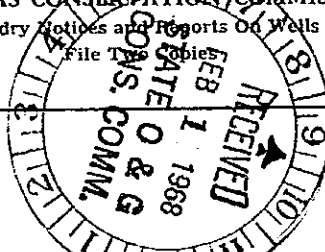
8. I hereby certify that the foregoing is true and correct.

Signed C. F. Swain Title Owner Date 1/29/68
C. F. Swain, d/b/a Crest Oil Company

Permit No. 442

Form No. 25

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File 1 of 1



Geological and Drilling Report
of

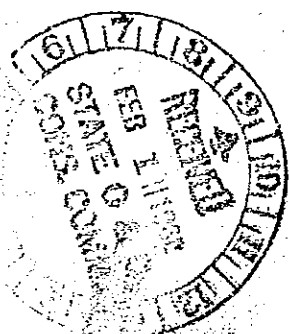
CREST OIL CO.

CREST-SPURLOCK NO. 1

Section 3 - T17N - R26E

Apache County, Arizona

E. A. Clement
Consulting Geologist
Farmington, N. M.
December 10, 1967



Permit 422

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1824 WEST ADAMS, SUITE 202
TELEPHONE: 271-3161
PHOENIX, ARIZONA, 85002

WELL DATA

Operator: Crest Oil Co.
Box 57, Alton, Illinois

Well Name: Crest-Spurlock No. 1

Location: 1980' from the North line &
1980' from the East line of
Section 3, T17N, R26E
Apache County, Arizona

Elevation: 5961 Ground; 5971 Kelly Bushing

Contractor: Circle A Drilling Co., Denver, Colorado

Starting Date: November 26, 1967

Completion Date: December 5, 1967

Total Depth: 3784' (Driller); 3781' (Schlumberger)

Hole Size: 13 3/4", surface to 134' below K.B.
6 3/4", 134' to T.D.

Casing Program: Surface casing: 10 3/4" - 134' set at 123'
below ground level and cemented with 125
sacks cement with 2% calcium chloride

Cores: None

Drill Stem Tests: None

Water Zones: (From Schlumberger log): 835' to 872';
1020' to 1215'; 3010' to 3130'

Lost Circulation
Zones: 1108', 1216', 1902', 3161', 3229', 3643'

Logs: Schlumberger Induction-Electric log, 130' to
1305'; Gamma Ray-Induction log, 850' to
3780'; Bore Hole Compensated Sonic log, 850'
to 3780'

Completion: Temporary Abandoned

DRILLING:

This well was drilled by Circle A Drilling Co. of Denver, Colorado, using a Wilson Drive-in rotary unit. The unit was moved in and partially rigged up on Nov. 24. Rigging up was completed on Nov. 25 and the rat hole, mouse hole and a 13 3/4" surface pipe hole were drilled. Spud time was 8:30 pm, 11/25/67. The surface pipe hole was drilled to 140' below the kelly bushing and 10 3/4" surface casing was run and cemented with 126 sacks of cement with an additive of 2% calcium chloride. The casing was set 134' below the kelly bushing and 123' below ground level. Cement was circulated to the surface and the plug was pumped to bottom at 2 am Nov. 26.

Drilling was resumed at 2:30 pm Nov. 26, after allowing the cement to harden for 12 1/2 hours. The well was drilled at a very fast rate without incident to a depth of 1108', where a lost circulation zone was encountered and approximately 100 barrels of drilling fluid was lost. New mud was mixed and lost circulation material added. Circulation was established within 15 minutes and drilling continued to 1216' where circulation was lost again and re-gained in the above manner, with drilling interrupted for 25 minutes. The well was drilled to 1300' where a Schlumberger electric induction log was run. Drilling was again resumed and at a depth of 1350', the mud was changed to an oil inverted mud containing 60% diesel oil and 40% water with gel and chemicals added.

Drilling was stopped for 4 hours during this conversion.

The well was drilled on to 1902' where the mud was lost and drilling was suspended for 23 hours while waiting on diesel oil and mud. The depth of 1902' was reached at 5:10 am on Nov. 29. At this time the rig reverted to day work. A tank was hauled to the location for diesel storage for future lost circulation problems and drilling was resumed at 4:15 am, Nov. 30, after new mud was mixed.

Drilling continued with interruptions at 3161, 3229 and 3643 where lost circulation was encountered and over come with little difficulty.

A total depth of 3784' was reached at 4:50 am, Dec. 5, and the well was logged by Schlumberger with a Gamma Ray Induction log and a Borehole Compensated Sonic log from 850' to 3780'.

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>TYPE</u>	<u>IN</u>	<u>OUT</u>	<u>FOOTAGE</u>
1	6 3/4"	Smith DT	140	1038	898
2	"	Reed YHG	1038	1223	185
3	"	Reed YHG	1223	1902	679
4	"	Smith DT2G	1902	2411	509
5	"	Smith DT2G	2411	2826	415
6	"	Reed YS1	2826	3157	331
7	"	Reed YS1	3157	3550	393
8	"	Reed YTL	3550	3591	41
9	"	Smith HNG	3591	3605	14
10	"	Smith SC4G	3605	3784	179

STRATIGRAPHY

Identification of the formation tops encountered in this well were made from the Schlumberger logs and are presented below.

<u>FORMATION</u>	<u>DEPTH</u>	<u>SEA LEVEL DATUM</u>
Chinle	100 (est)	plus 5871
Shinarump	810	" 5181
Moenkopi	950	" 6021
Cocconino	1020	" 4951
Supai	1387	" 4584
Top Salt	1460	" 4511
Base Salt	2084	" 3887
Granite Wash	3604	" 2367
Pre-Cambrian	5717	" 2254

PE 3600 Amstrat.
(+2371)

Depth of lost circulation zones, fluid lost and drilling time lost are as follows:

<u>DEPTH</u>	<u>AM'T FLUID LOST</u>	<u>TIME LOST</u>
1108	100 bbls.	15 min.
1216	100 "	25 "
1902	160 "	23 hours
3161	150 "	28 "
3227	150 "	6 3/4 hours
3643	30 "	1 1/4 "

Drill cutting samples were taken at 10 foot intervals from 150' to 3600' and at 5 foot intervals from 3600' to T.D. All samples were microscopically examined and checked for hydrocarbons with an ultra-violet lamp at the well site as drilled. Sample quality was excellent through out the drilling of the well.

When drilling started, the Star Recorder was inoperative and drilling time was kept manually in 5 foot intervals from 650' to



ILL. Crest Spurlock No. 1
COMPANY Crest Oil Co.
COUNTY Apache
STATE Arizona PIN 442

TOTAL GAS _____
METHANE (BY DIFFERENCE) _____
METHANE (DIRECT) _____
LIQUID HYDROCARBONS _____
(C6) _____

LEGEND
DEPTH CORRESPONDS TO DRILL
PIPE MEASUREMENTS.
NGB NEW CORE BIT
DST DRILL STEM TEST
NR NO RETURNS
TG TRIP GAS
CO CIRCULATE OUT RETURNS

LITHOLOGY
SAND
SHALE
GRANITE WASH Limestone
GYPSUM HYDRATE
LIGNITE

DRILLING RATE
□ FE PER HR.
□ MIN. PER FT.

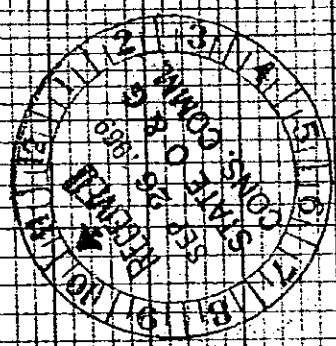
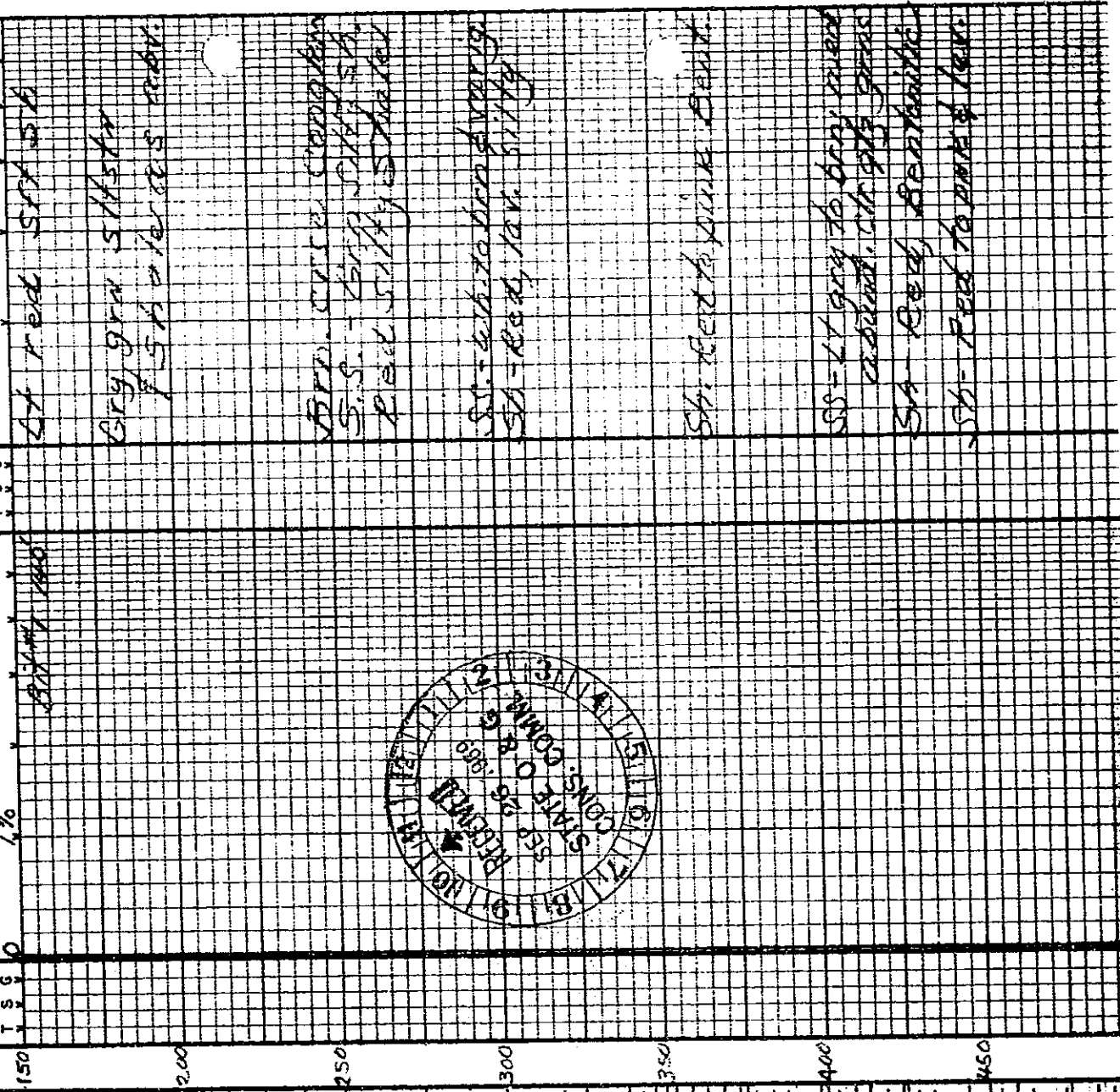
Waiting time
recorded to 650'

LITHOLOGY

MUD ANALYSIS
HELIUM GAS
%
0 1 2 3 4 5 6 7 8 9 10

OIL
T S G
0 1 2 3 4 5 6 7 8 9 10

CUTTINGS ANALYSIS





Well _____
Well Name _____
Well No. _____
Well Depth _____
Well Status _____

Well _____
Well Name _____
Well No. _____
Well Depth _____
Well Status _____

Well _____
Well Name _____
Well No. _____
Well Depth _____
Well Status _____

Well _____
Well Name _____
Well No. _____
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Well Depth _____
Well Status _____

Well _____
Well Name _____
Well No. _____
Well Depth _____
Well Status _____

Well _____
Well Name _____
Well No. _____
Well Depth _____
Well Status _____

Drilling Rate
ft. per hr. _____
min. per ft. _____

Lithology

Oil

Helium Gas

Oil

Oil

Oil

Oil

Oil

Oil

Oil

Oil

Oil

Oil

Oil

500

550

600

650

700

750

800

850

900

950

1000

1050

1100

1150

1200

1250

1300

1350

1400

1450

1500

1550

1600

1650

1700

1750

1800

1850

1900

1950

2000

2050

2100

2150

2200

2250

2300

2350

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2500

2550

2600

2650

2700

2750

2800

2850

2900

2950

3000

3050

3100

3150

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3250

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3950

4000

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4100

4150

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4250

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5000

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5100

5150

5200

5250

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7000

7050

7100

7150

7200

7250

7300

7350

7400

7450

7500

7550

7600

7650

7700

7750

7800

7850

7900

7950

8000

8050

8100

8150

8200

8250

8300

8350

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10450

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10700

10750

10800

10850

10900

10950

11000

11050

11100

11150

11200

11250

11300

11350

11400

11450

11500

11550

11600

11650

11700

11750

11800

11850

11900

11950

12000

12050

12100

12150

12200

12250

12300

12350

12400

12450

12500

12550

12600

12650

12700

12750

12800

12850

12900

12950

13000

13050

13100

13150

13200

13250

13300

13350

13400

13450

13500

13550

13600

13650

13700

13750

13800

13850

13900

13950

14000

14050

14100

14150

14200

14250

14300

14350

14400

14450

14500

14550

14600

14650

14700

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15100

15150

15200

15250

15300

15350

15400

15450

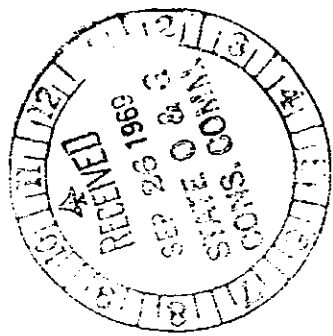
15500

15550

15600

15650

15700





WELL Great Spring No. 1
COMPANY Great Oil Co.
COUNTY Apache
STATE Arizona

TOTAL GAS _____
METHANE (BY DIFFERENCE) _____
METHANE (DIRECT) _____
LIQUID HYDROCARBONS (C₆) _____

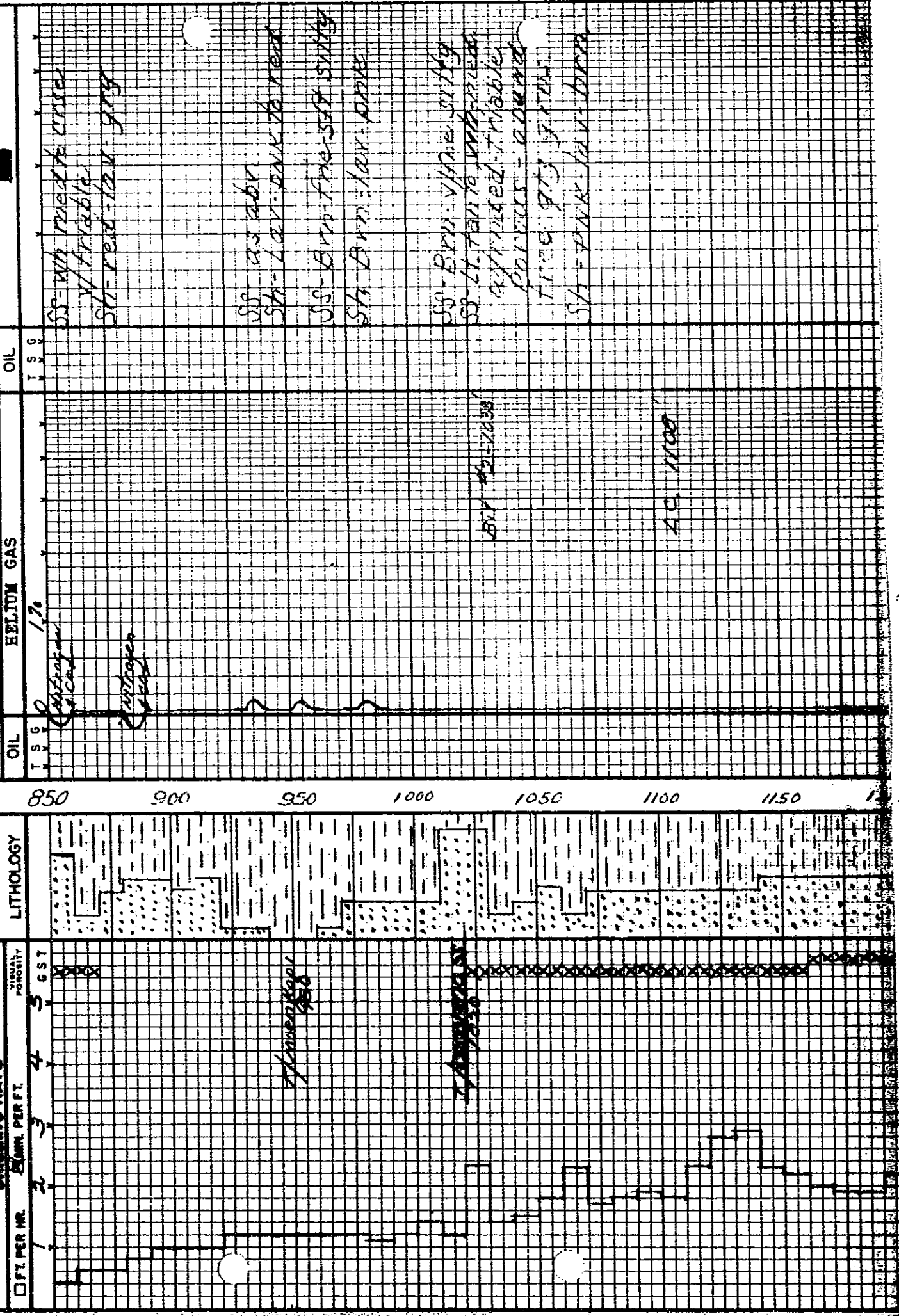
DEPTH CORRECTED TO DRILL PIPE MEASUREMENTS _____
NEW BIT _____
NEW CORRECTION _____
DRILL STEM TEST _____
NO RETURNS _____
TRIP GAS _____
CIRCULATE OUT RETURNS _____

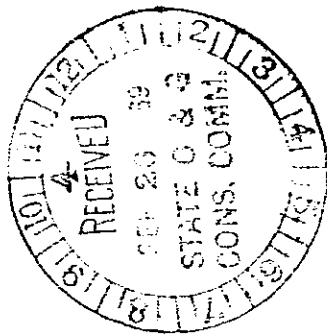
LITHOLOGY

SAND ☐ GRANITE WASH ☐ LIMESTONE ☐
SHALE ☐ GYPSUM/DOLomite ☐ DOLOMITE ☐ LIGHTS ☐

CUTTINGS ANALYSIS

MUD ANALYSIS







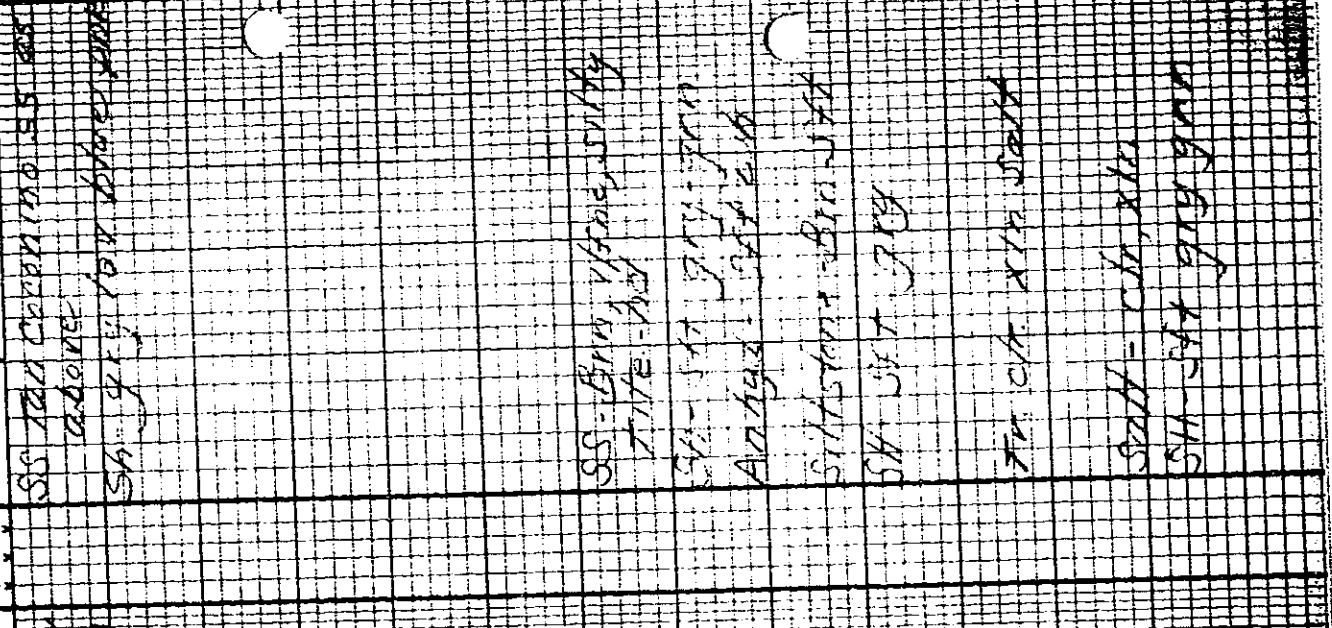
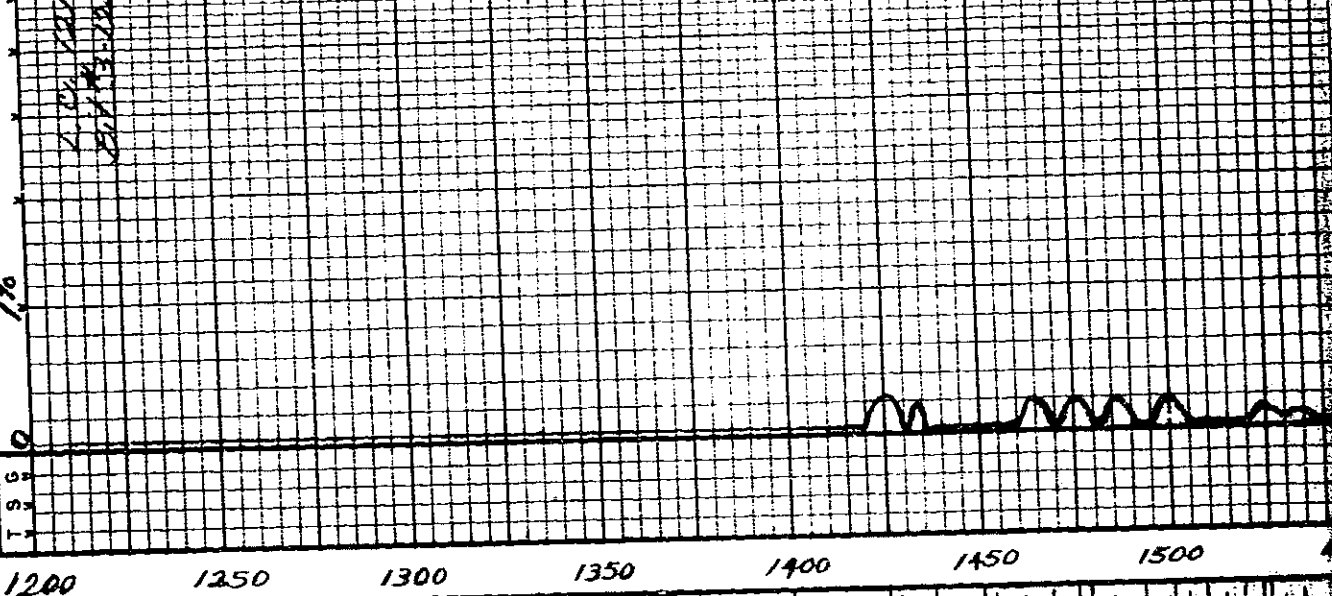
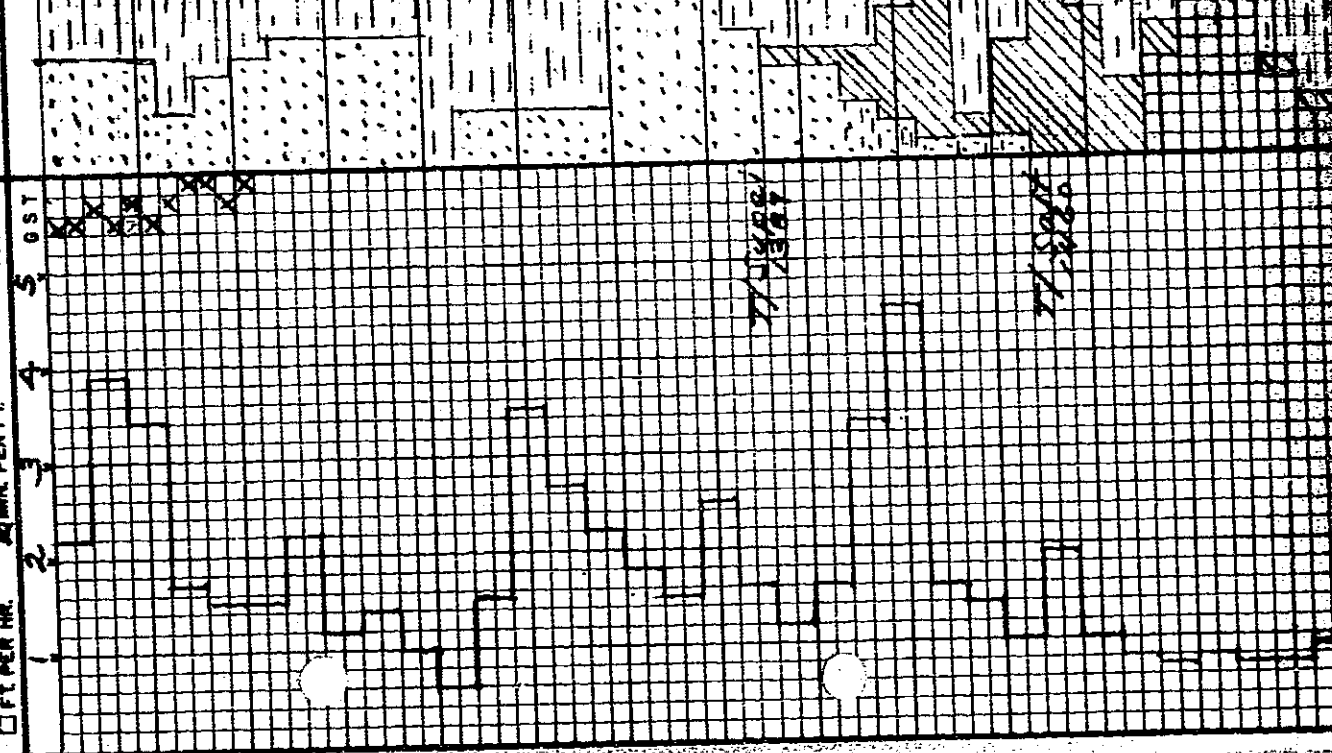
Grant Spurlink No. 1.
COMPANY Grant Oil Co.
COUNTY Apache
STATE Arizona

DRILLING RATE
FT. PER HR. 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LITHOLOGY

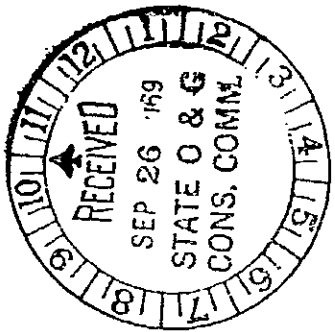
HELIUM GAS
OIL
T S G

CUTTINGS ANALYSIS



LEGEND
DEPTH CORRESPONDS TO DRILL
PIPE MEASUREMENTS.
NEW BIT
NEW CORRE BIT
DRILL STEM TEST
NO RETURNS
TRIP GAS
CIRCULATE OUT RETURNS

LITHOLOGY
SAND
SHALE
SILTSTONE
DOLOMITE
LIMESTONE
GRANITE WASH





WELL - Great Spunk No. 1
COMPANY - Great Oil Co.
COUNTY - Apache
STATE - Arizona

DRLING RATE

FT PER HR. MIN. PER FT.

1 2 3 4 5

6 7 8 9 10

11 12 13 14 15

16 17 18 19 20

21 22 23 24 25

26 27 28 29 30

31 32 33 34 35

36 37 38 39 40

41 42 43 44 45

46 47 48 49 50

51 52 53 54 55

56 57 58 59 60

61 62 63 64 65

66 67 68 69 70

71 72 73 74 75

76 77 78 79 80

81 82 83 84 85

86 87 88 89 90

91 92 93 94 95

96 97 98 99 100

101 102 103 104 105

106 107 108 109 110

111 112 113 114 115

116 117 118 119 120

121 122 123 124 125

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631 632 633 634 635

636 637 638 639 640

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646 647 648 649 650

651 652 653 654 655

656 657 658 659 660

661 662 663 664 665

666 667 668 669 670

671 672 673 674 675

676 677 678 679 680

681 682 683 684 685

686 687 688 689 690

691 692 693 694 695

696 697 698 699 700

701 702 703 704 705

706 707 708 709 710

711 712 713 714 715

716 717 718 719 720

721 722 723 724 725

726 727 728 729 730

731 732 733 734 735

736 737 738 739 740

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771 772 773 774 775

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801 802 803 804 805

806 807 808 809 810

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841 842 843 844 845

846 847 848 849 850

851 852 853 854 855

856 857 858 859 860

861 862 863 864 865

866 867 868 869 870

871 872 873 874 875

876 877 878 879 880

881 882 883 884 885

886 887 888 889 890

891 892 893 894 895

896 897 898 899 900

901 902 903 904 905

906 907 908 909 910

911 912 913 914 915

916 917 918 919 920

921 922 923 924 925

926 927 928 929 930

931 932 933 934 935

936 937 938 939 940

941 942 943 944 945

946 947 948 949 950

951 952 953 954 955

956 957 958 959 960

961 962 963 964 965

966 967 968 969 970

971 972 973 974 975

976 977 978 979 980

981 982 983 984 985

986 987 988 989 990

991 992 993 994 995

996 997 998 999 1000

1001 1002 1003 1004 1005

1006 1007 1008 1009 1010

1011 1012 1013 1014 1015

1016 1017 1018 1019 1020

1021 1022 1023 1024 1025

1026 1027 1028 1029 1030

1031 1032 1033 1034 1035

1036 1037 1038 1039 1040

1041 1042 1043 1044 1045

1046 1047 1048 1049 1050

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1086 1087 1088 1089 1090

1091 1092 1093 1094 1095

1096 1097 1098 1099 1100

1101 1102 1103 1104 1105

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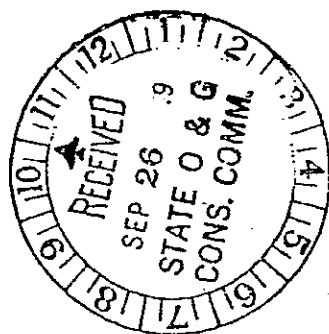
1111 1112 1113 1114 1115

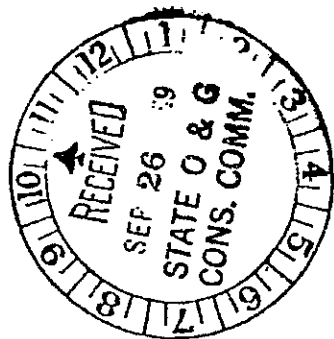
1116 1117 1118 1119 1120

1121 1122 1123 1124 1125

1126 1127 1128 1129 1130

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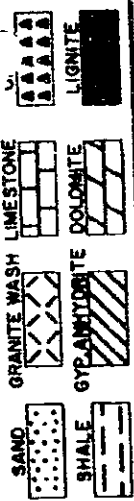


Great Seal Leak No. 1.
COMPANY Great Oil Co.
COUNTY Apache
STATE Arizona

TOTAL GAS
METHANE
(BY DIFFERENCE)
METHANE
(CORRECT)
LIQUID HYDROCARBONS
(%) 6.0

DEPTH CORRESPONDING TO DRILL
PIPE MEASUREMENTS.
NBS NEW CORE BIT
DST DRILL STEM TEST
NR NO RETURNS
TG TRIP GAS
CO CIRCULATE OUT RETURNS

LITHOLOGY



CUTTINGS ANALYSIS

MUD ANALYSIS

DRILLING RATE
MIN. PER FT.
5
4
3
2
1
0

LITHOLOGY

OIL
TSG

HELIUM GAS
170

OIL
TSG

OIL
TSG

OIL
TSG

OIL
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TSG

FT. PER HR.

LITHOLOGY

OIL
TSG

HELIUM GAS
170

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FT. PER HR.

LITHOLOGY

OIL
TSG

HELIUM GAS
170

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FT. PER HR.

LITHOLOGY

OIL
TSG

HELIUM GAS
170

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FT. PER HR.

LITHOLOGY

OIL
TSG

HELIUM GAS
170

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FT. PER HR.

LITHOLOGY

OIL
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HELIUM GAS
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FT. PER HR.

LITHOLOGY

OIL
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HELIUM GAS
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FT. PER HR.

LITHOLOGY

OIL
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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

OIL
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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

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HELIUM GAS
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FT. PER HR.

LITHOLOGY

OIL
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HELIUM GAS
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FT. PER HR.

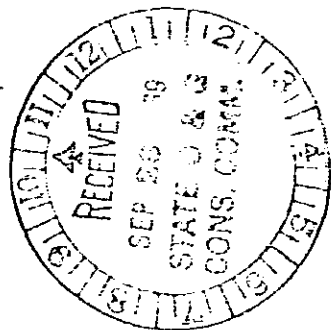
LITHOLOGY

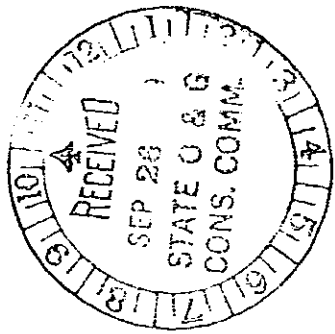
OIL
TSG

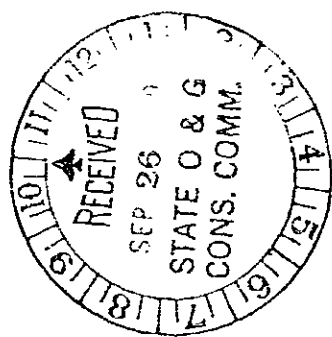
HELIUM GAS
170

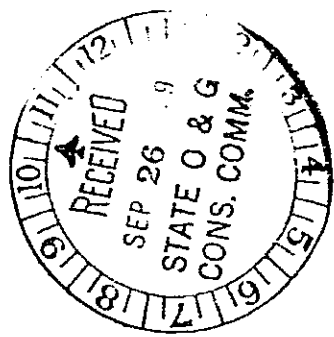
OIL
TSG

O











WELL Crest Spurlock No. 1.
COMPANY Crest Oil Co.
COUNTY Apache
STATE Arizona

TOTAL GAS _____
METANE (BY DIFFERENCE) _____
METHANE (DIRECT) _____
LIQUID HYDROCARBONS _____
(%) _____

LEGEND
DEPTH CORRESPONDS TO DRILL
PIPE MEASUREMENTS.
NEW BIT
NEW CORE BIT
DST
DRILL STEM TEST
NO RETURNS
TRIP GAS
CIRCULATE OUT RETURNS

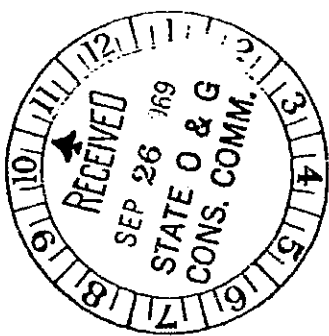
LITHOLOGY
SAND
GRANITE WASH
LIGNITE
GYPSUM
DOLOMITE
SHALE

DRILLING RATE
FT. PER HR. 2
MIN. PER FT. 8
VISUAL POROSITY 10 GST

MUD ANALYSIS
OIL TSS 0
HELIUM GAS 1.70
OIL TSS 0

CUTTINGS ANALYSIS





1035'. At this depth, the recorder was repaired and the time was recorded at 1 foot intervals from 1035' to T.D.

A Baroid hydro-carbon gas detector was in operation during all of the drilling and a chromatograph was used to check mud samples for helium gas at critical intervals.

Drill cutting samples were transported to Phoenix and deposited with the state oil & gas commission. Drilling time record and gas detector records are in the possession of the operator, Dr. C. F. Swain. A log of the well, showing drilling time, sample description and gas detector readings, plotted opposite the depth, is included with this report.

No shows of hydro-carbons were observed during the drilling of this well. Visual porosity was observed in the samples from the Shinarump and Coconino formations, as indicated on the sample description log. No shows of hydro-carbon gas were recorded by the gas detector during the drilling. Frequent checks of the detector were made by flowing bottled gas through the system and the mechanism was found to be working perfectly on each check. Several small shows of helium gas were found by checking mud samples through the chromatograph. These shows are indicated on the sample description sheets. An approximation of the amount of helium on these shows can be assumed by checking known percentages of helium samples on the Chromatograph and comparing the two readings. By this method, we found the shows of gas to be 2/10 to 5/10 of 1% helium. By its nature, helium is difficult to trap and contain,

therefore, the checks are no more than indications of the percent of helium, as it is believed the gas escapes from the mud in large amounts on contact with the atmosphere.

As soon as Schlumberger finished logging the well, a conference was held at the well site, with operator C. F. Swain presiding and moderating. In attendance, beside Swain, were E. A. Clement, Geologist; C. T. Henderson; W. E. Johnson, new president of Apache Drilling Co. and Mr. Rusen, Schlumberger engineer, who left after answering questions concerning interpretation of the different logs. After considerable discussion, it was decided to seek permission from the Arizona Oil & Gas Commission to temporarily hold up completion work on the well. A 20 foot cement plug was set in the top of the well and the hole left full of its drilling mud, as instructed by the commission.

It is now planned to re-enter the well as early as possible and drill stem test the Supai formation at a zone approximately in the top of the salt beds, where shows of Helium and Nitrogen gas were recorded on the Baroid chromatograph during drilling. X

With this further information, a better evaluation can be made as to whether to attempt completion in the Supai or in the Shinarump formation.


E. A. Clement
Consulting Geologist

Farmington, N. M.
December 10, 1967



ELL Crest Sparlock No. 1
COMPANY Crest Oil Co.
COUNTY Apache
STATE Arizona

TOTAL GAS
METHANE
(BY DIFFERENCE)
METHANE
(DIRECT)
LIQUID HYDROCARBONS
(%)

DEPTH CORRESPONDS TO DRILL
PIPE MEASUREMENTS.
NEW BIT
NEW CORE BIT
DRILL STEM TEST
NO RETURNS
TRIP GAS
CIRCULATE OUT RETURNS

LITHOLOGY

GRANITE WASH
SAND
SHALE
GYPSUM
DOLOMITE
LIMESTONE
LIGHT

PULLING RATE

FEET PER MIN. PER FT. VISUAL POROSITY

LITHOLOGY

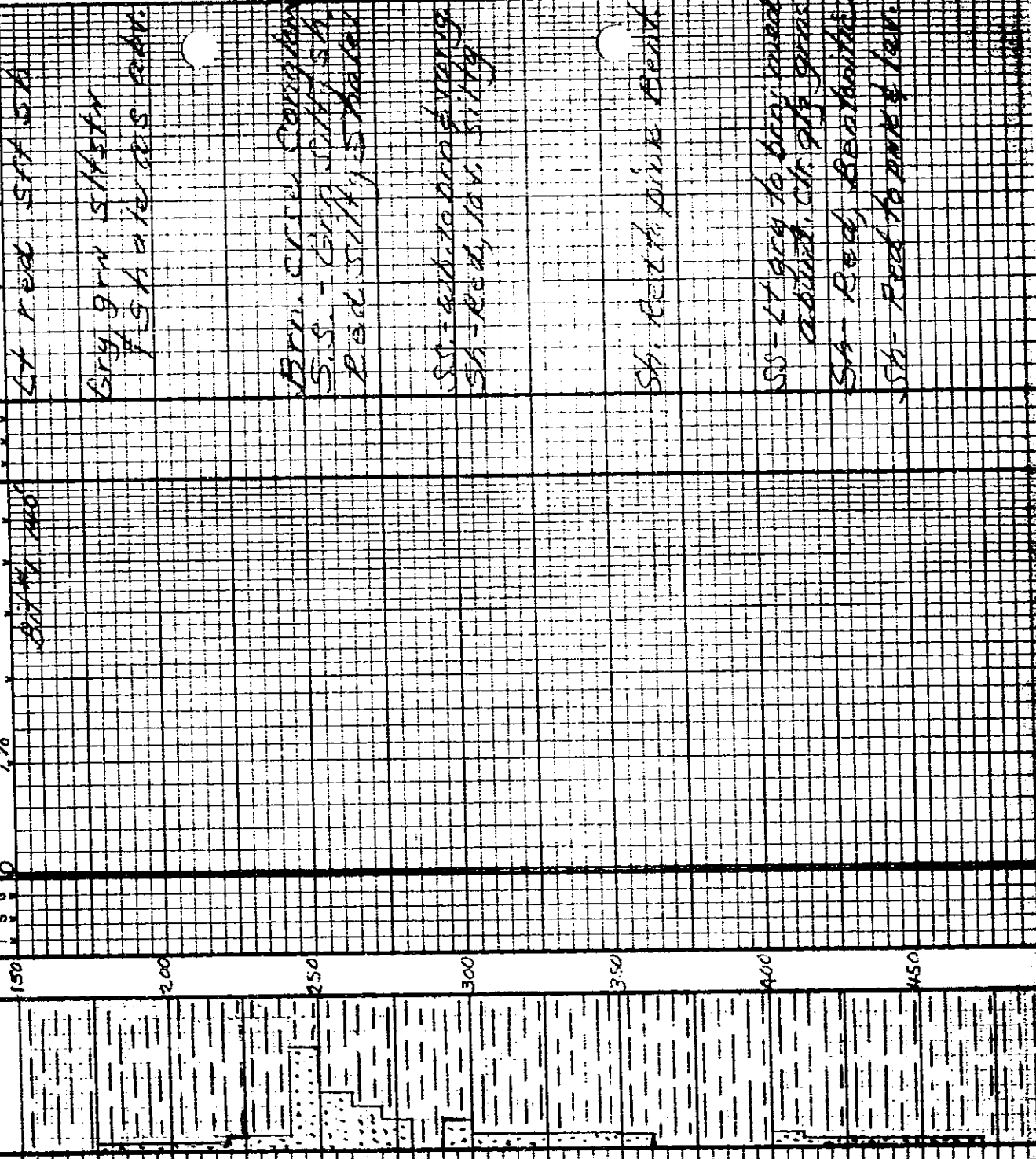
MUD ANALYSIS

OIL
RELATION GAS
1%

CUTTINGS ANALYSIS

OIL
RELATION GAS
1%

subdividing time
recorded to 0.00



LT red silt sh
Gry grn silt sh
shale ss
Brn. clay sandstone
S.S. - Brn. silt sh
Red silt sh
SS - Lt gray to gray med
silt sh. Brn. clay
Sh - Red, Brn. silt sh
Sh - Red to med silt sh



WELL - Crest Sparlock No. 1
COMPANY - Crest Oil Co.
COUNTY - Apache
STATE - Arizona

WELL LOGGING OFFICE

DRILLING RATE

FT. PER HR. MIN. PER FT.

1 2 3 4 5 6 7 8 9 10

LITHOLOGY



TOTAL GAS
METHANE
(BY DIFFERENCE)
METHANE
(DIRECT)
LIQUID HYDROCARBONS
(C₆₀)

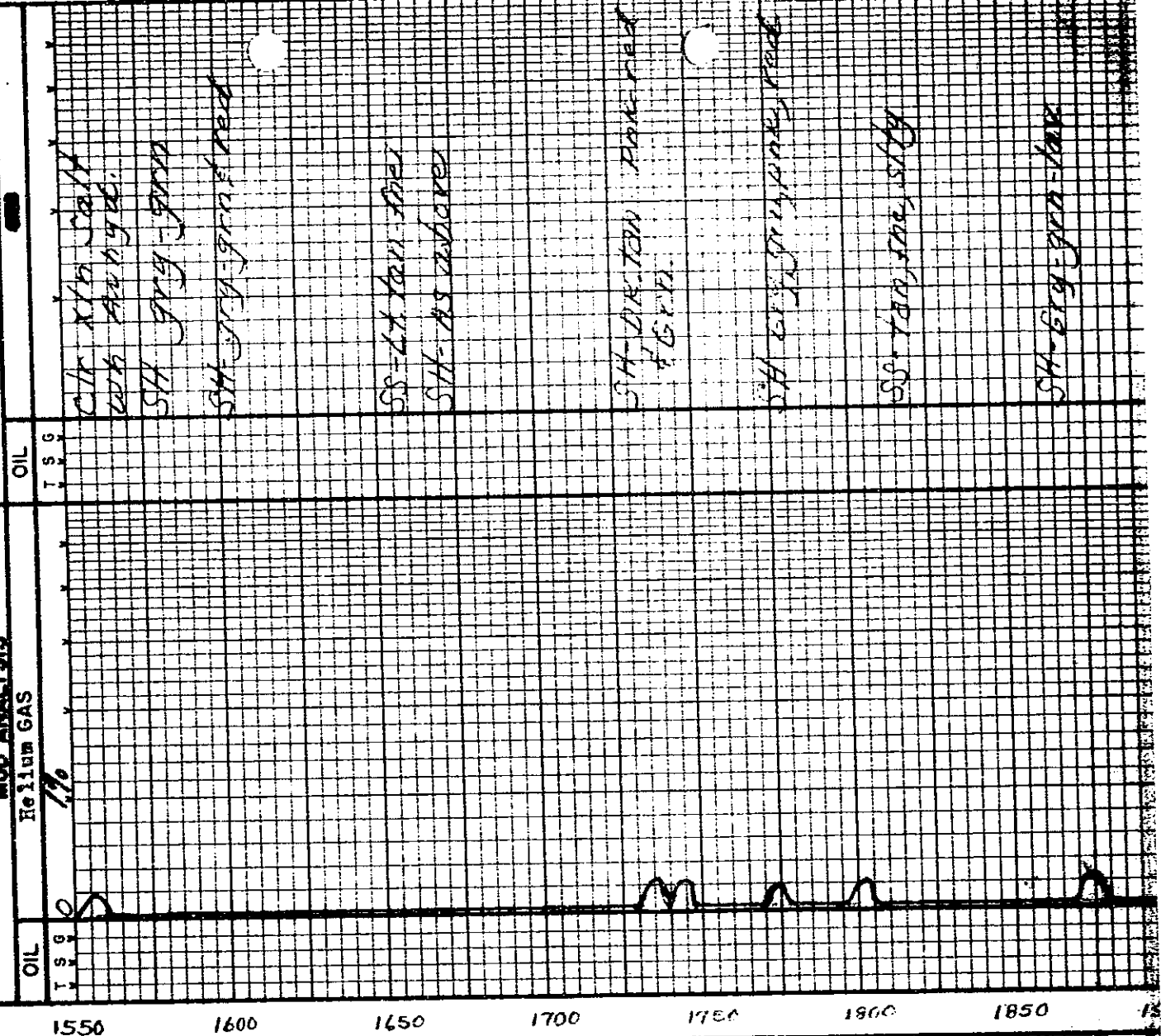
LEGEND

DEPTH CORRECTIONS TO DRILL
PIPE MEASUREMENTS
NEW BIT
NEW CORE BIT
NEW DRILL STEAM TEST
NEW TO RETURNS
NEW TRIP GAS
NEW CIRCULATE OUT RETURNS

LITHOLOGY

SAND
SHALE
GRANITE WASH
LIMESTONE
DOLOMITE
SALT

CUTTINGS ANALYSIS

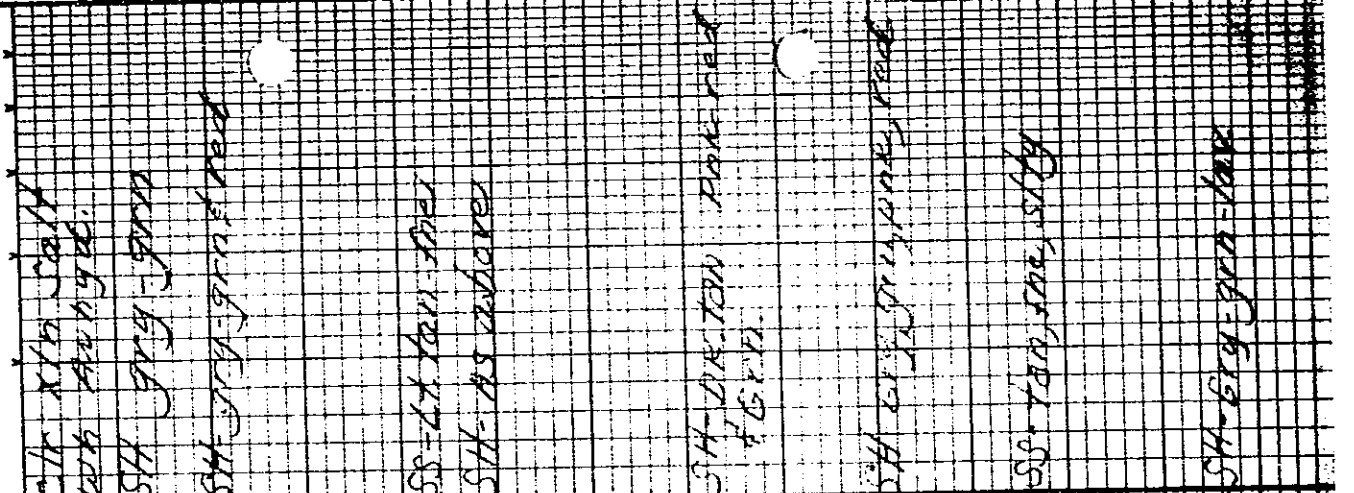


MUD ANALYSIS

Helium GAS

OIL

T S G



1550 1600 1650 1700 1750 1800 1850

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48 49 50

51 52 53 54 55 56 57 58 59 60

61 62 63 64 65 66 67 68 69 70

71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90

91 92 93 94 95 96 97 98 99 100

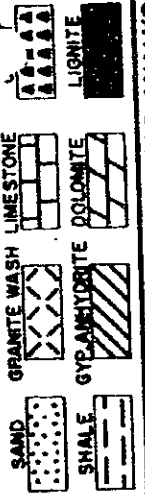


WELL Great Southwest No. 1.
COMPANY Great Oil Co.
COUNTY Apache
STATE Arizona

TOTAL GAS
METHANE
(BY DIFFERENCE)
METHANE
(DIRECT)
LIQUID HYDROCARBONS
(%)

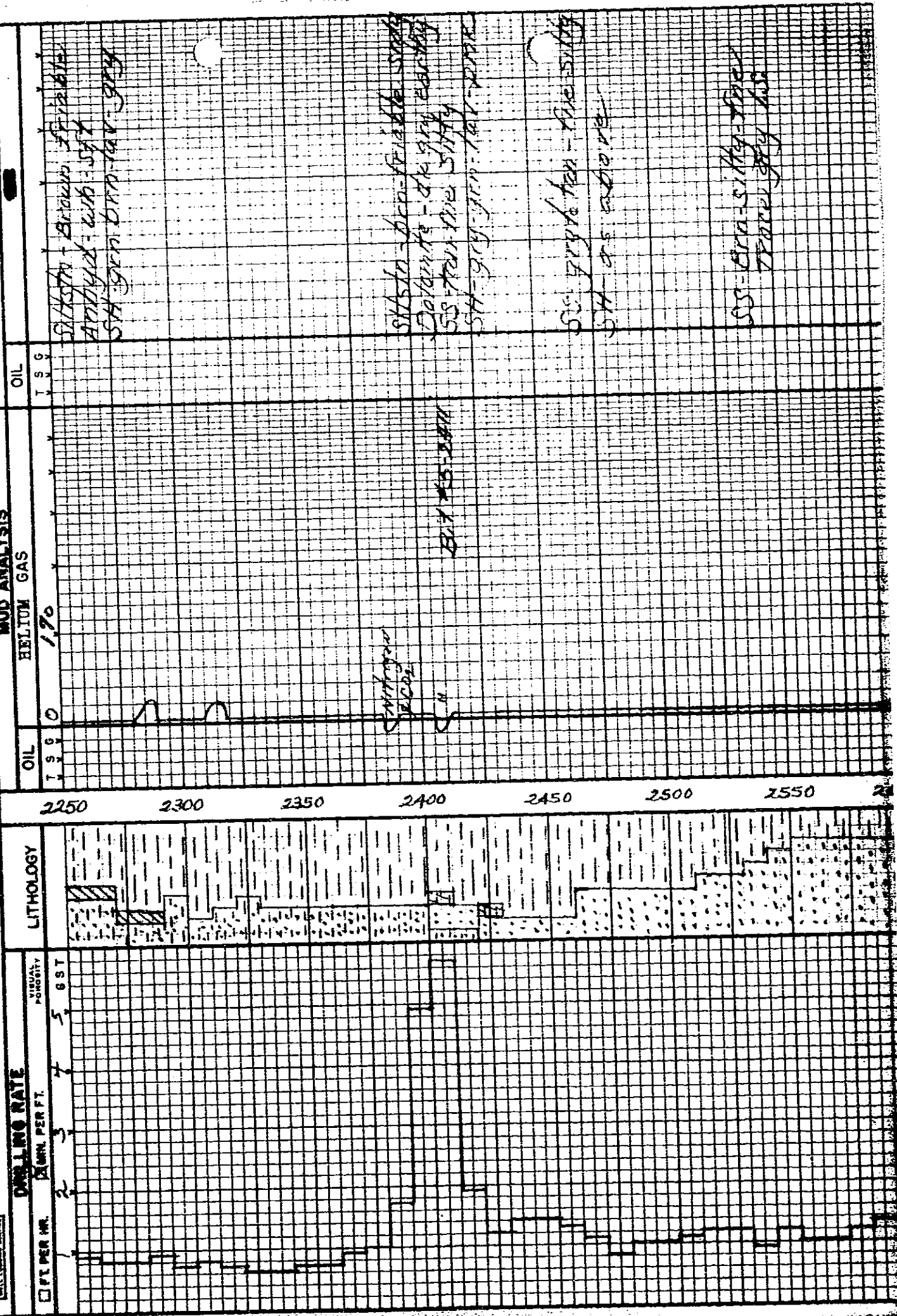
DEPTH CORRESPONDS TO DRILL
PIPE MEASUREMENTS.
NGB NEW CORE BIT
DST DRILL STEM TEST
NR NO RETURNS
TG TRIP GAS
CO CIRCULATE OUT RETURNS

LITHOLOGY



CUTTINGS ANALYSIS

MUD ANALYSIS



November 28, 1967

Truitt Henderson called in person to report:

Re: Crest Oil #1 Spurlock
Permit 442

Spuded 11-26-67

11-28-67 - Preparing to log at 3:00 a.m. Coconino top: 1018, 315' thick.
Drilling ahead.

Telephone Brian Kirby: 12-6-67----- Understands Crest has reached TD
of about 3785 ft. and has logged. At the moment are head scratching
@ decision ~~XXXXXXXXXXXXXXXXXXXX~~ to abandon.

Dec 13/67
[Samples Delivered by Charlie Trebs.]
(IN BASEMENT.)

Crest Oil #1 Spurlack
#442

Set 126' of 10^{3/4}"
surface 11-26-67

Drilled out from
under surface
11-27-67

probably d.f.g. Cocconino
at 1000' today

JVB

11-27-67

as per Truitt Henderson

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

NAME OF COMPANY OR OPERATOR C. F. Swain, d/b/a Crest Oil Company

Address P. O. Box 57 Alton, Illinois 62002
City State

Drilling Contractor Circle A Drilling Company
Address 380 Denver Hilton Office Building Denver, Colorado 80202

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor <u>Fee....R. Ted Spurlock</u>	Well number <u>One</u>	Elevation (ground) <u>5961.0'</u>
Nearest distance from proposed location to property or lease line: <u>Approx 12,000</u> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <u>No others drlg. completed, or applied for</u>	
Number of acres in lease: <u>Approx 12,000 acres</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>One</u>	

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
<u>1980' S of NL, & 1980' W of EL</u>	<u>Section 3-17N-26E</u>	<u>W/2 of NE/4</u>
Field and reservoir (if wildcat, so state)	County	
<u>Wildcat</u>	<u>Apache</u>	

Distance, in miles, and direction from nearest town or post office
15 Miles South of Navajo

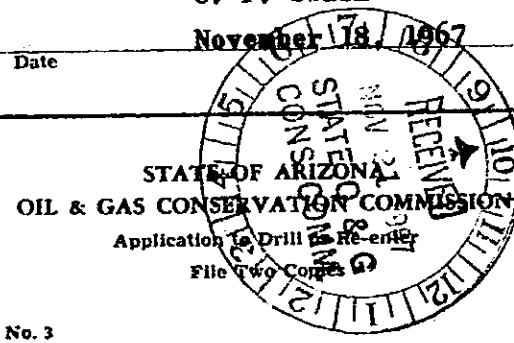
Proposed depth: <u>Granite Est 3600'</u>	Rotary or cable tools <u>Rotary</u>	Approx. date work will start <u>November 24, 1967</u>
Bond Status <u>In process</u>	Organization Report <u>On file</u> Or attached <input checked="" type="checkbox"/>	Filing Fee of \$25.00 <u>Attached</u> <input checked="" type="checkbox"/>

Remarks:
Bonding Company is Maryland Casualty Company. Bonding Company has been requested to forward Bond direct from their resident agent in Phoenix to attention of John Bannister, executive secretary, Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner of the Crest Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature C. F. Swain
Date November 18, 1967

Permit Number: 442
Approval Date: 11-21-67
Approved By: John Bannister
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.



Form No. 3

API 02-201-20065

(Complete Reverse Side)

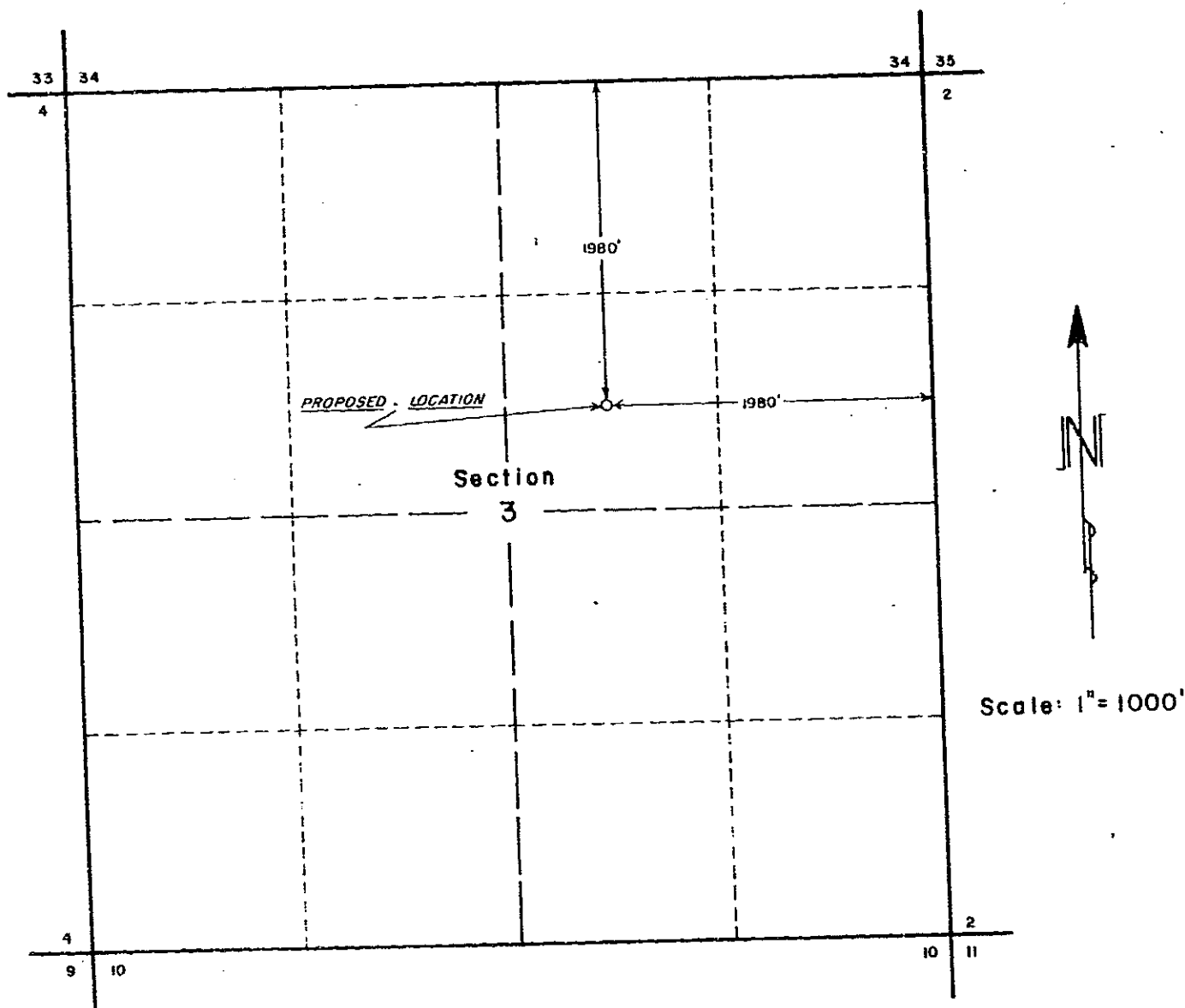
1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation _____
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner	C. F. Swain, d/b/a Crest Oil Co.	Land Description	
	P. O. Box 57 Alton, Ill. 62002		W/2 of NE/4, Sec 3-17N-26E Apache County

	CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
	Name <u>C. F. Swain</u>	
	Position <u>Owner</u>	
	Company <u>Crest Oil Company</u>	
	Date <u>11/18/67</u>	
I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.		
Date Surveyed <u>11/17/67</u> Registered Professional Engineer and/or Land Surveyor Frederick H. Reed Certificate No. <u>Arizona No. 5313</u>		

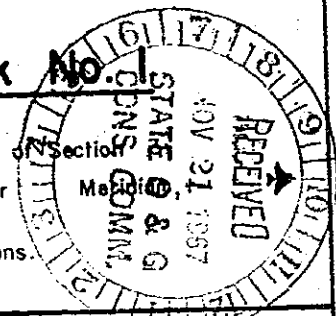
PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10-3/4"	32.75#	H-40 ST & C	-0-	100'	-0- to 100'	



WELL LOCATION: CREST OIL COMPANY - Spurlock No. 1

Located 1980 feet South of the North line and 1980 feet West of the East line of Section 3,
 Township 17 North, Range 26 East, Gila and Salt River
 Apache County, Arizona.
 Existing ground elevation determined at 5961.0 feet based on adjoining locations.



I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed

FREDERICK H. REED
 Registered Land Surveyor
 Arizona Reg. No. 5313

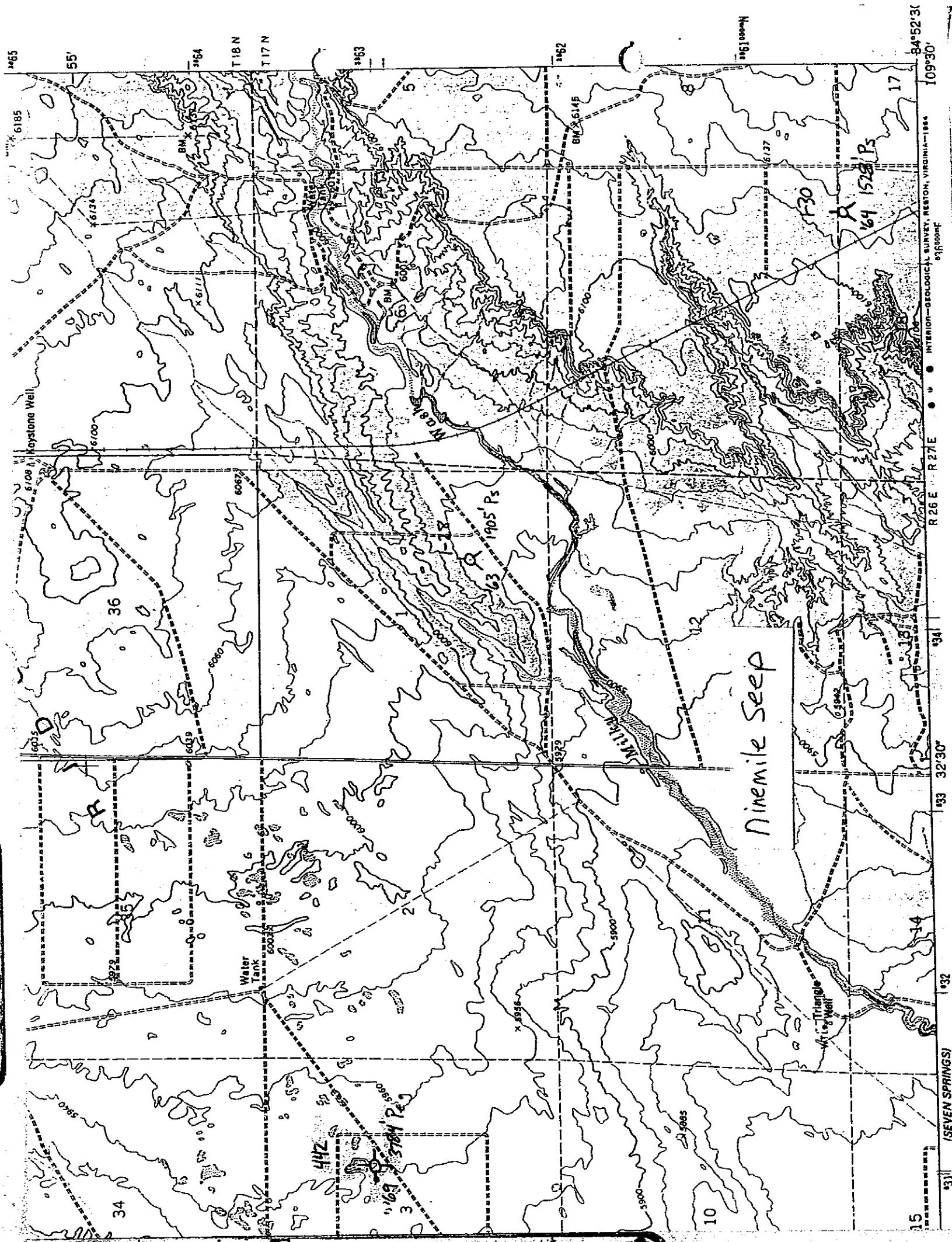


CREST OIL COMPANY
 Alton, Illinois

WELL LOCATION PLAT
 Sec. 3, T 17 N, R 26 E
 Apache County, Arizona

CLARK-REED & ASSOC.
 Durango, Colorado

DATE: Nov. 16, 1967
 FILE NO: 67095





PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: CREST OIL COMPANY
(OPERATOR)

to drill a well to be known as

CREST OIL #1 SPURLOCK

(WELL NAME)

located 1980' FNL & FEL (SW/4NE/4)

Section 3 Township 17N Range 26E, Apache County, Arizona.

The W/2 of NE/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 21st day of November, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By

John Binnister
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST LEAVE IN FULL COMPLIANCE WITH RULE
105, SECTION 1 AND 2 (105-101), WITH RESPECT
TO THE PRODUCE TO BE PRODUCED.

PERMIT Nº 442
Verbal approval 11-20-67

RECEIPT NO. 0528

API No. 02-001-20065

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

C. F. SWAIN

**Crest
OIL COMPANY**

P. O. BOX 57
ALTON, ILLINOIS 62002

AREA CODE 618-462-5346

December 10, 1969

John Bannister, Exec Secretary
Oil & Gas Conservation Commission
1624 West Adams, Rm 202
Phoenix, Arizona 85007

Dear John:

Even though every one knows the Arizona Helium Corporation plant has been shut down, I thought you might prefer to have the Form No. 16 filled out for your files, so I am listing them all as shut-in with no gas produced nor sold.

I will continue to send the Form 16 unless you advise me otherwise.

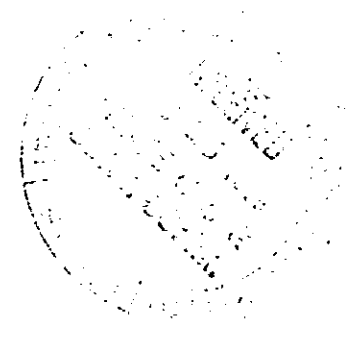
Thank you for your attention to the releasing of the Bonds on the Crest-Crizz #1 and the Crest Spurlock #1.

With best wishes for a joyful Holiday Season,

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

442



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 94-109310

That we: C. F. Swain, d/b/a CREST OIL COMPANY

of the County of Madison in the State of Illinois

as principal, and MARYLAND CASUALTY COMPANY

of Baltimore, Maryland

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of \$5,000.00 lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

Section 3, T17N, R26E, Apache County, Arizona

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation, but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 13th day of November, 1967

C. F. Swain d/b/a Crest Oil Company

Principal

WITNESS our hands and seals this 13th day of November, 1967

MARYLAND CASUALTY COMPANY

By: J. D. Hamlet Attorney-in-Fact

Surety

Samuel E. E. Conklin
SAMUEL E. E. CONKLIN

Surety, Resident Arizona Agent
If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed, or by its duly authorized agent, power of attorney or other evidence of authority must accompany the bond.)

Approved
Date

11-21-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By:

John K. Bannister

Form No. 2

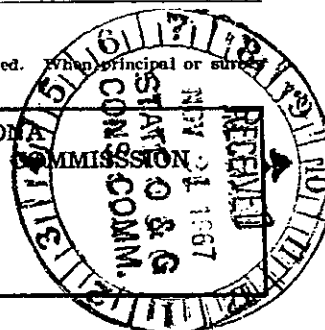
442

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Bond

File Two Copies

Form No. 2



STATE OF MISSOURI
CITY OF ST. LOUIS.

ss.

On this 13th day of November, A. D., 1967, before me personally appeared J. D. Hamlet, with whom I am personally acquainted, who, being by me duly sworn, said: that he resides in the City of St. Louis; that he is Attorney-in-Fact of the Maryland Casualty Company, the corporation described in, and which executed the foregoing instrument; that he knows the corporate seal of said Company; that said seal affixed to said instrument is such corporate seal; that it was so affixed pursuant to a power of attorney granted in accordance with the By-Laws of said Company; and that he signed his name thereto as Attorney-in-Fact by like authority.

John S. Dillon
Notary Public within and for the City of St. Louis, Mo.

NOV 26 1968

My commission expires.....

CERTIFIED COPY

Know all Men by these Presents: That MARYLAND CASUALTY COMPANY, a corporation created by and existing under the laws of the State of Maryland, of Baltimore City, Maryland, in pursuance of the authority set forth in Section 12 of Article V of its By-laws, from which the following is a true extract, and which Section has not been amended nor rescinded:

"The Chairman of the Board or the President or any Vice-President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority."

does hereby nominate, constitute and appoint **VINCENT A. BAYER, R. DeLARBER, J. G. CURTIS, STANLEY M. TUGEL, EDWIN J. HARTY, ELMER F. DENNESS, WILLIAM A. ROZAITIS** and **J. D. HAMLET**, each with full power to act alone,

of **ST. LOUIS** State of **MISSOURI**, its Attorney s-in-Fact to make, execute, seal, and deliver on its behalf as Surety, and as its act and deed, any and all bonds, recognizances, stipulations, undertakings, and other like instruments.

Such bonds, recognizances, stipulations, undertakings, or other like instruments shall be binding upon said Company as fully and to all intents and purposes as if such instruments had been duly executed and acknowledged and delivered by the authorized officers of the Company when duly executed by any one of the aforesaid attorneys in fact.

This instrument supersedes power of attorney granted Vincent A. Bayer, R. DeLarber, J. G. Curtis, Stanley M. Tugel, Edwin J. Harty, Elmer F. Denness, Richard A. White and William A. Rozaitis dated November 10, 1966.

In Witness Whereof, MARYLAND CASUALTY COMPANY has caused these presents to be executed in its name and on its behalf and its Corporate Seal to be hereunto affixed and attested by its officers thereunto duly authorized, this 20th day of February, 1967, at Baltimore City, Maryland.

ATTEST: (CORPORATE SEAL)

MARYLAND CASUALTY COMPANY

(Signed) Kathryn B. Young

Assistant Secretary.

By (Signed)

Albert H. Walker

Vice-President.

STATE OF MARYLAND

ss.

BALTIMORE CITY

On this 20th day of February, A. D., 19 67, before the subscriber, a Notary Public of the State of Maryland, in and for Baltimore City, duly commissioned and qualified, came

Albert H. Walker Vice-President, and Kathryn B. Young Assistant Secretary, of MARYLAND CASUALTY COMPANY, to me personally known, and known to be the officers described in, and who executed the preceding instrument; and they each acknowledged the execution of the same; and, being by me duly sworn, they severally and each for himself deposed and said that they respectively hold the offices in said Corporation as indicated, that the Seal affixed to the preceding instrument is the Corporate Seal of said Corporation, and that the said Corporate Seal, and their signatures as such officers, were duly affixed and subscribed to the said instrument pursuant to all due corporate authorization.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at Baltimore City, Md., this day and year first above written.

(NOTARIAL SEAL)

(Signed) Lila G. Schwartz

My commission expires

July 1, 1967

CERTIFICATE

I, an Assistant Secretary of the Maryland Casualty Company, do hereby certify that I have compared the aforesaid copy of the Power of Attorney with the original now on file among the records of the Home Office of the Company and in my custody, and that the same is a full, true and correct copy, and that the Power of Attorney has not been revoked, amended or abridged, and is now in full force and effect.

Given under my hand as Assistant Secretary, and the Seal of the Company, at Baltimore City, Md., this

13th day of November, A. D., 19 67

Agnes R. Reimer
Assistant Secretary.

MARYLAND CASUALTY COMPANY

To: Oil & Gas Conservation Commission

From: Phoenix Bond Department

Remarks: BOND NO. 94-109810
C. F. Swain, dba: Crest Oil Company



CERTIFIED COPY

Know all Men by these Presents: That MARYLAND CASUALTY COMPANY, a corporation created by and existing under the laws of the State of Maryland, of Baltimore City, Maryland, in pursuance of the authority set forth in Section 12 of Article V of its By-laws, from which the following is a true extract, and which Section has not been amended nor rescinded:

"The President or any Vice-President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority."

does hereby nominate, constitute and appoint W. J. BUFFINGTON and SAMUEL E. E. CONKLIN,
each with full power to act alone,

of PHOENIX State of ARIZONA its Attorney s-in-Fact
to make, execute, seal, and deliver on its behalf as Surety, and as its act and deed, any and all bonds, recognizances, stipulations, undertakings, and other like instruments.

Such bonds, recognizances, stipulations, undertakings, or other like instruments shall be binding upon said Company as fully and to all intents and purposes as if such instruments had been duly executed and acknowledged and delivered by the authorized officers of the Company when duly executed by either one of the aforesaid attorneys in fact.

This instrument supersedes power of attorney granted W. J. Buffington and E. J. McKenna dated October 14, 1964.

In Witness Whereof, MARYLAND CASUALTY COMPANY has caused these presents to be executed in its name and on its behalf and its Corporate Seal to be hereunto affixed and attested by its officers thereunto duly authorized, this 13th day of January, 1966, at Baltimore City, Maryland.

ATTEST: (CORPORATE SEAL)

MARYLAND CASUALTY COMPANY

(Signed) Rose E. Lutz

Assistant Secretary.

By (Signed) Albert H. Walker

Vice-President.

STATE OF MARYLAND

BALTIMORE CITY

ss.

On this 13th day of January, A. D., 1966, before the subscriber, a Notary Public of the State of Maryland, in and for Baltimore City, duly commissioned and qualified, came

Albert H. Walker Vice-President, and Rose E. Lutz Assistant Secretary, of MARYLAND CASUALTY COMPANY, to me personally known, and known to be the officers described in, and who executed the preceding instrument; and they each acknowledged the execution of the same; and, being by me duly sworn, they severally and each for himself deposed and said that they respectively hold the offices in said Corporation as indicated, that the Seal affixed to the preceding instrument is the Corporate Seal of said Corporation, and that the said Corporate Seal, and their signatures as such officers, were duly affixed and subscribed to the said instrument pursuant to all due corporate authorization.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at Baltimore City, the day and year first above written.

(NOTARIAL SEAL)

(Signed) Clagett R. Reimer

Notary Public.

My commission expires July 1, 1967

CERTIFICATE

I, an Assistant Secretary of the Maryland Casualty Company, do hereby certify that I have compared the aforesaid copy of the Power of Attorney with the original now on file among the records of the Home Office of the Company and in my custody, and that the same is a full, true and correct copy, and that the Power of Attorney has not been revoked, amended or abridged, and is now in full force and effect.

Given under my hand as Assistant Secretary, and the Seal of the Company, at Baltimore City, Md., this

13th day of NOVEMBER, A. D., 1967.

X Lambert
X - Chuan

November 25, 1969

Mr. Samuel E. Conklin
Maryland Casualty Company
100 West Clarendon
Phoenix, Arizona 85013

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Maryland Casualty Company
Bond No. 94-109810
\$5,000

Dear Mr. Conklin:

Records of this office indicate that on 11-25-69 Crest Oil Company fulfilled their obligations to the Commission of the State of Arizona as to the requirements pertaining to the well covered by the captioned bond. We authorize termination of this bond effective this date.

Yours truly,

John Hannister
Executive Secretary

jd

cc: Crest Oil Company, Dr. C. F. Swain

442

C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

AREA CODE 618-462-5346

11/20/69

James A. Lambert, Adm Asst
Arizona Oil & Gas Conservation Commission
1624 West Adams Room 202
Phoenix, Arizona 85007

Re: Crest #1 Spurlock	Crest-Ariz Hel #2 S. F.
T17N-R26E, G&SRM	T20N-R27E, G&SRM
Section 3: SW/4 NE/4	Section 25: C SW/4
Apache County Permit #442	Apache County, Permit #472

Dear Mr. Lambert:

Please review our file on the above captioned wells beginning with my letter of September 24, 1969 and ending with your letter November 17, 1969.

I enclose herewith copies of the statements from Ted Spurlock, landowner for covering the pits and cleaning up the locations.

In addition I enclose copy of invoices from Mesa Field Service, Inc., Farmington, New Mexico showing that we were billed for 4-1/2 feet of 4-1/2" pipe and welded on lettering for the two wells.

Mr. J. D. Hdoper, pumper for the Navajo Springs area hired by Arizona Helium Corporation, and I personally placed the dry hole markers on the wells after the holes were filled full of cement.

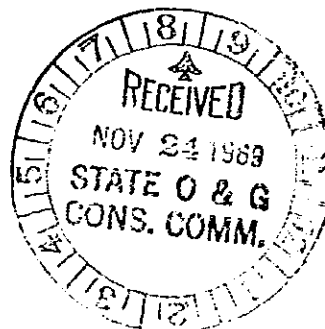
The name of the wells, their respective locations and permit numbers were welded lettering on the pipes, large and clear.

Will appreciate your prompt contact with Maryland Casualty Company giving permission for cancellation of the respective bonds.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



NOTE-O-GRAM

THE DRAWING BOARD - DALLAS, TEXAS

R. C. SPURLOCK & SONS

NAVAJO, ARIZONA • PHONE 688-2742

MESSAGE

REPLY

TO

Crest Oil Co
Z Doc Swain

DATE

DATE

Sept 1, 1969

Bill - Spurlock - Crest South

Cover Pils and
clean up 6 hrs
1750 parts

\$105.00

PAID
9/2/69
CH No 1066
C

BY

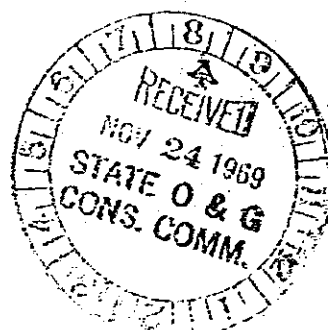
R. C. Spurlock

SIGNED

INSTRUCTIONS TO RECEIVER

1. KEEP YELLOW COPY. 2. SEND WHITE AND PINK COPIES WITH CARBON INTER.

WHITE REPLY. 3. STAMP TO IN. IF PINK COPY. RETURN WHITE COPY TO SENDER.



Mesa Field Service, Inc.

238 PETROLEUM PLAZA BLDG. • PHONE: 825-5667
FARMINGTON, NEW MEXICO 87401

TO Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

DATE September 4, 1969

INVOICE NO. 9-3

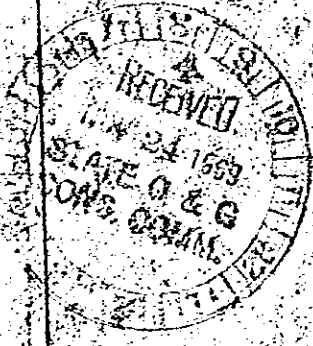
S. O. NO.

WELL NO.

LEASE

DATE	DESCRIPTION	AMOUNT
September	5 feet pipe @ \$1.90 per foot	\$ 9.00
	3 hours welding @ \$9.00 per hour	27.00
		<u>\$36.00</u>
	One dry hole marker, made from 4-1/2" pipe, 4-1/2 feet long, with well name, location, and permit number welded on for Crest Arizona Helium #2 Santa Fe.....	\$18.00
	One dry hole marker, made from 4-1/2" pipe, 4-1/2 feet long, with well name, location, and permit number welded on for Crest Sparlock #1.....	\$18.00

PAID
9/11/69
10/1/69



X-throw
X-Sanlet
X 472

November 17, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472

Dear Dr. Swain:

Please advise us when we may expect to receive a statement pertaining to the captioned well sites as requested in our letter dated September 30.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jd
E

42
47

September 30, 1969

Dr. C. F. Swain
Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Re: Crest #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz Helium #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472

Dear Dr. Swain:

Please refer to Rules and Regulations, Rule 202.A.7, which directs the manner in which an abandoned well should be marked.

When we receive the statement from you that the well site has been cleared and each of the wells marked in the prescribed manner, we will be willing to notify Maryland Casualty Company that the wells covered by their bonds are complete and that we are willing to release the bonds on the captioned wells.

Yours truly,

James A. Lambert
Administrative Assistant

/vb

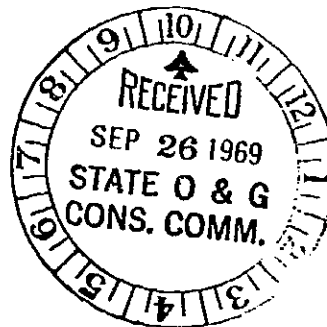
C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

AREA CODE 618-462-5346

September 24, 1969



James A. Lambert, Administrative Assistant
Arizona Oil & Gas Conservation Commission
1624 West Adams Room 202
Phoenix, Arizona 85007

Re: Crest #1 Spurlock
Section 3: SW/4 NE/4
T17N, R26E, G & SRM
Apache County
Permit #442

Crest-Arizona Helium #2 Santa Fe
Section 25: C SW/4
T20N, R27E, G & SRM
Apache County
Permit #472

Dear Mr. Lambert:

Attached hereto please find Forms 10 and Forms 4 in duplicate on the Captioned wells.

Unless I hear from you to the contrary, I will assume that you will inform the Maryland Casualty Company that they may release the Bonds covering these wells.

Thank you for your patience in awaiting the receipt of the completed forms 10 and 4.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs

X-Chrono
X-Lambert

September 17, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz Helium #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472 X

Dear Dr. Swain:

Thank you for the offer of extra copies of the Geologist's report describing the sample study on the samples from the Crest-Arizona Helium #2 Santa Fe. The copy we have is sufficient. Thank you for your efforts to try to find the lost samples.

We will expect to receive the completed forms 10 and forms 4 on the captioned wells pursuant to your letter dated September 13, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

442

C. F. SWAIN

CREST OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

AREA CODE 618-462-5346

September 13, 1969

James A. Lambert, Adm Asst
Oil and Gas Conservation Commission
1624 West Adams Room 202
Phoenix, Arizona 85007

Dear Mr. Lambert:

Having been away from my office from August 18th until September 9th, I am still trying to catch up on correspondence, so please forgive my late replies to your letters of August 20th and 26th.

9v
The samples we saved on the Crest-Ariz #2 Santa Fe and which were picked up by the Beasley Hot Shot Trucking Service from Farmington and which were supposed to have been delivered by them to the Four Corners Sample Cut, still cannot be found. Ed Clement our Geologist traced back on them again in person with both the Beasley firm and Four Corners. I then followed up with phone calls to both firms and neither can find them.

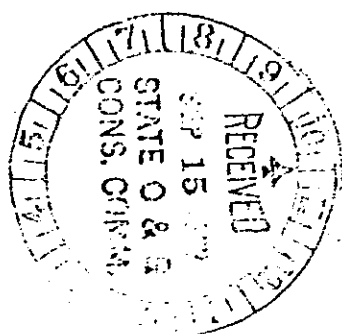
Since they appear to be hopelessly lost, can you accept the Geologist's detailed description as written up in his brochure? I assure you that said description is accurate and complete. In all my experience with Geologists, I can recall none more conscientious and careful with strip logs and sample study and description than Ed Clement. If additional copies would be helpful, I will be glad to make them up.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

P. S. I will do my best to complete the Forms 10 and 4 on the two plugged wells in the next couple of days. (Your letter of August 26th) *2-1-72*

I thank you for your assistance in the matter of the Aztec Well Service Company rig being held up at the Port of Entry. However the rig was called back to Farmington. Although delayed several days in waiting, I was able to obtain a rig already operating in the area, Standard Drilling Company, Ben Nelson of Sanders Arizona, owner.



September 10, 1969

Dr. C. F. Swain
Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R28E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472

Dear Dr. Swain:

Our records indicate that on July 25, 1969 a plugging program was approved for each of the two wells. Please submit your Form 10 and your Form 4 pertinent to each of the two wells should the plugging procedure have been accomplished.

If there has been a delay in this matter, please advise us when you expect to accomplish the plugging of these two wells.

Yours truly,

James A. Lambert
Administrative Assistant

/vb

X - (Lions)
X - Lambert

August 26, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472 <

Dear Dr. Swain:

A telephone call Friday indicated that an Aztec Oil Company rig was in route to the two captioned wells. We hope that we were of assistance in clearing their way on through. We remind you that we will expect the Form 10's and Form 4's pertinent to these two wells within the next several days.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

442

(X-Charono
X-Lambert

July 31, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472 X

Dear Dr. Swain:

Recently we mailed you approved Application to Abandon and Plug forms on the captioned wells. Enclosed is our Form 10, Plugging Record, to be completed at the time of accomplishment of the plugging procedure. We enclose our Form 4, Well Completion. These forms are to be completed in duplicate and returned to this office. Please note that formations should be called on the reverse side of the Well Completion Report.

The reports made by your geologist, E. A. Clement, indicated he examined samples on the Crest-Arizona #2 Santa Fe. Our records do not indicate that we received any samples on that well. We enclose our circular letter pertaining to well samples for your information. Please advise us when you will comply with the well sample instruction letter.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

442

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

July 23, 1969

James A. Lambert, Adm Asst
Oil and Gas Conservation Commission
1624 West Adams Room 202
Phoenix, Arizona 85007

RE: Crest Oil #1 Spurlock
SW/4 NE/4 Section 3
T17N-R26E Apache Co.
Permit #442

Crest-Arizona Helium #2 Santa Fe
C SW/4 Section 25
T20N-R27E Apache Co.
Permit #472

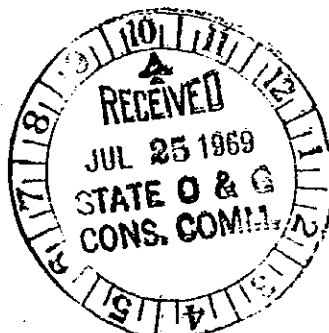
Dear Mr. Lambert:

4v
Enclosed please find applications to plug and abandon the
above two captioned wells which are presently under temporary
abandonment status.

Sincerely yours,

C.F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



X-Chron^o
X-Lambert

July 7, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz Helium #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472

Dear Dr. Swain:

We have not received our Form 25 covering activities on the captioned wells for the month of June, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

442

X-Chrono
X-Lambert

June 16, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County
Permit #442

Crest-Ariz Helium #2 Santa Fe
T20N, R27E, G & SRM
Sec. 25: C SW/4
Apache County
Permit #472 X

Dear Dr. Swain:

This Commission approves continuance of temporary abandon status as of this date. This status will expire 9-20-69. During this interim submit a Form 25 on the last day of each month indicating this status. On 9-15-69 submit a Form 25 giving notice of your intentions concerning these wells subsequent to 9-20-69.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

Enc.

442

C. F. SWAIN

**Crest
OIL COMPANY**

P. O. BOX 17
ALTON, ILLINOIS 62002

PHONE 462-5340

June 15, 1969



James A. Lambert, Adm Asst
Oil and Gas Conservation Commission
1624 West Adams Bm 202
Phoenix, Arizona 85007

Crest Arizona 2 Santa Fe	Crest-Spurlock #1
Sec 25-20N-27E Apache Co.	Sec 5-17N-20E Apache Co.
Permit 3472	Permit 3472

Dear Mr. Lambert:

Enclosed herewith please find Sundry Notices Report on above captioned wells covering the month of May 1969.

74
With respect to Item 5 of each of the reports enclosed, I hereby request extension of temporarily abandoned status until September 20, 1969. My reasons for this request are as follows:

1. Decision has been made to plug and abandon Crest Arizona Helium #2 Santa Fe, but need more time to inform all parties, make proper application, and arrange necessary details.
2. It appears probable that Crest-Spurlock #1 will also be plugged and abandoned, but need more time to discuss with and inform all parties, make proper application, and arrange necessary details.
3. There are several matters of importance which will require more ^{time} to resolve with Arizona Helium Corporation, which matters I prefer to be resolved before proceeding further.
4. I prefer to be able to make the upcoming Field Trip in new factory ordered vehicle on which delivery date is indefinite.
5. Requested extension would permit wife and I to be at home and be host to Brother and Mother for their recently planned vacation trip to Alton.

Sincerely yours,

C. F. Swain
Crest Oil Company

442
CFS:FA

C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

May 9, 1969

James A. Lambert Adm Asst
Oil and Gas Conservation Commission
1624 West Adams Rm 202
Phoenix, Arizona 85007

Crest Arizona #2 Santa Fe	Crest-Spurlock #1
Sec 25-20N-27E Apache Co.	Sec 3-17N-26E Apache Co.
Permit #172	Permit #442 X

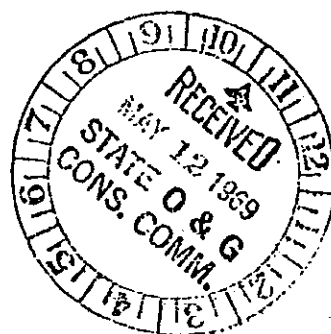
Dear Mr. Lambert:

4- Enclosed herewith please find Sundry Notices Report on
above captioned wells covering month of April 1969.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



472

X. Lambert Log
X. Cheno

April 11, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest-Ariz Helium #1 Santa Fe Crest-Ariz Helium #2 Santa Fe
T20N, R27E, G & SRM T20N, R27E, G & SRM
Sec. 25: SE/4 SE/4 Sec. 25: C SW/4
Apache County, Arizona Apache County, Arizona
Permit #471 X Permit #472 X

Crest-Ariz Helium #8X Santa Fe
T20N, R27E, G & SRM
Sec. 25: SE/4 NW/4
Apache County, Arizona
Permit #473 X

Dear Dr. Swain:

Enclosed is Form #8 in duplicate. Please complete and return to this office at once. We understand that the #1 and #8X Santa Fe Wells are to be produced. This Form will take care of the three captioned wells.

At such time as the Crest #1 Spurlock is produced we will require a Certificate of Compliance on that well.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

442

X- Lambert Log
X- Chano Log

April 1, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Dear Dr. Swain:

This Commission approves continuance of temporary abandon status as of this date. This status will expire 6-20-69. During this interim submit a Form 25 on the last day of each month indicating that status. On June 15, 1969, submit a Form 25 giving notice of your intentions concerning this well subsequent to 6-20-69.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

442

X-Chloro Log
X-Lambert Log

March 25, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Dear Dr. Swain:

We note that the temporary abandon status on the
captioned well will expire on April 1, 1969.
Please submit a Form #25 detailing your immed-
iate plans for this well.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

X - (Chrono Log
A - Lambert
Log

March 17, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & 3RM
Sec. 3: 3W/4 NE/4
Apache County, Arizona
Permit #442

Dear Dr. Swain:

We note that the captioned well is on temporary abandon status which is to expire on April 1, 1969. Please submit a Form 25 detailing your immediate plans for this well. Should you plan to plug this well, your program should be submitted and approved prior to beginning work. If you wish to petition the Commission to allow this well to be continued in a temporary abandon status for an additional period of time, such petition should be forwarded immediately.

Samples from this well have been received by the Arizona Bureau of Mines.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

Enc.

442

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

March 13, 1969

James A. Lambert, Adm Asst
Oil and Gas Conservation Commission
1624 W. Adams Rm 202
Phoenix, Arizona 85007

Re: Crest-Ariz Helium #2 S. F. Permit #472

Dear Mr. Lambert:

In answer to your letter of March 11, 1969, requesting that I file a Form #25 on above captioned well as of the last day of February, I have done so and attach hereto. 442

I assumed that the form filed 2/18/69, at which time I also filed Form #25 on Crest-Arizona Helium #1 S. F., #8-X S.F., and Crest-Spurlock #1 took care of obligations for February. 471 473 442

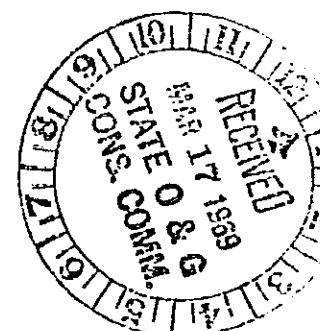
442 TA 4/1/69
Sample in
If additional reports are expected for February will you please so advise. Will Form #25 reports be expected on all of above wells on the last day of March? And each month thereafter?

Also Mr. Lambert, when you have the opportunity, please check your files concerning samples saved from the above wells. Crest saved samples from all, and sent them to the Four Corners Sample Cut Association in Farmington for processing and distribution. To this date, I have only received billing from them for samples I finally was able to locate and obtain from Steve Henderson on the Apache Drilling Company #1 Santa Fe. (this was a shinarump test and completion attempted, but plugged and abandoned September 1968 under permit 353). According to billing from Four Corners, they send cuts to the Arizona Bureau Of Mines, and to the Museum of Northern Arizona. Just wanted you to know that samples from all the wells were saved and taken to them for processing and delivery, as each well was drilled to total depth.

Sincerely yours,

C.F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



442
442

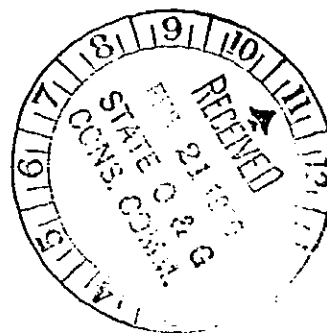
C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

February 18, 1969



James A. Lambert, Administrative Ass't.
Oil and Gas Conservation Commission
Phoenix, Arizona 85007

Re: Previous correspondence, monthly reports,
ending with your letter dated 2/6/69

Dear Mr. Lambert:

Attached hereto please find the following enclosures:

42 Permit #442, Crest Spurlock #1, 3-17-26, Apache County.

1. Sundry Notices Form 25 dated 2/18/69.
2. Report of Gas Analysis by Bureau Of Mines, Amarillo, Texas, sample from Supai formation. (See item 2 above report) Report of Analysis received 12/20/68.

Permit #471, Crest Arizona Helium #1 Santa Fe, 25-20-27, Apache Co.

1. Sundry Notices Form 25 dated 2/18/69.
2. Well Completion Report Form Number 4, dated 2/5/69.
3. Report of Gas Analysis by Bureau Of Mines, Amarillo, Texas, sample from Coconino formation. Date of Analysis, 12/20/68. (Date Report of Analysis received)
4. Geological brochure (copy), detailed report of drilling, testing, and completion work, including sample study.

Permit #472, Crest Arizona Helium #2 Santa Fe, 25-20-27 Apache Co.

1. Sundry Notices Form 25, dated 2/18/69.
2. Geological brochure (copy), detailed report of drilling, testing, and attempted completion work, including sample study.

Permit #473, Crest Arizona Helium #8-X Santa Fe, 25-20-27, Apache Co.

1. Sundry Notices Form 25 dated 2/18/69.
2. Well Completion Report Form No. 4, dated 2/5/69.
3. Report of Gas Analysis, sample from Coconino formation, received 12/20/68 from Bureau Of Mines, Amarillo, Texas.
4. Geological brochure (copy) detailed report of drilling, testing, and completion work, including sample study.

Will appreciate receipt of your acknowledgement of having received these reports and enclosures and your comments concerning same.

Sincerely yours,

C. F. Swain
C. F. Swain Crest Oil Company

CFS:fs

TELEGRAM - NIGHT LETTER
ALTON, ILLINOIS
FEBRUARY 19, 1969

DEAR MR. LAMBERT - PLEASE REFER TO OUR CORRESPONDENCE ENDING
WITH YOUR LETTER DATED FEBRUARY 6 1969. REPORTS ON ALL WELL
INCLUDING VARIOUS ENCLOSURES SENT TO YOU AIRMAIL CERTIFIED THIS
PM. SINCERELY YOURS C F SWAIN

#442
471
472
473

February 6, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Permits #442
#471
#472
#473

Dear Dr. Swain:

The Commission has notified the Attorney General to suspend action in your case for another ten days.

We are sympathetic to your series of personal misfortunes that has occurred. However, note that we have asked your cooperation and failed to receive it in December prior to the series of misadventures and maladies that have beset you. Postponement of required reports only compounds the requirements and earns a negative opinion of service commissions that have been set up to help you and conserve resources of the people. Please bring your operations into conformance with the published regulations prior to February 20, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

442

C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

January 24, 1969

James A. Lambert
Administrative Assistant
Oil and Gas Conservation Commission
1624 W. Adams Room 202
Phoenix, Arizona 85007

Dear Mr. Lambert:

Wish to acknowledge your letters written 1/14/69 requesting reports due the commission on the Crest Arizona Helium #1, #2, and #8-X Santa Fe, and the Crest Spurlock #1.

I realize that these reports are due and will get to them soon as I possibly can. I assure you I am not just ignoring your reminders nor just being negligent.

No one can take care of these reports for me. Both Betty (wife and bookkeeper) and I have been really down with the Influenza since very shortly after we arrived back in Alton following our drilling program covering the Subject wells. First I had it and then she, with each of us staying home and taking care of the other. So from mid December until January 15th we were unable to work at the office at all.

Our backlog of work became tremendous as I am sure you can appreciate, particularly at this time of the year. So please bear with me a few more days and I assure you I will bring myself into compliance as soon as possible.

Sincerely yours,

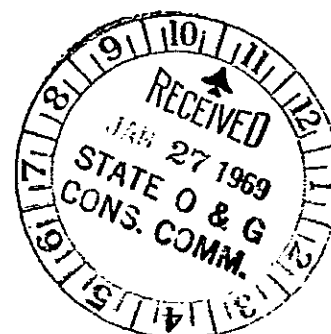
C. F. Swain
C. F. Swain
Crest Oil Company

442

471

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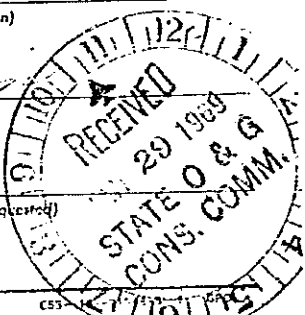
473



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

INSTRUCTIONS TO DELIVERING EMPLOYEE	
<input type="checkbox"/> Deliver ONLY to addressee	<input type="checkbox"/> Show address where delivered (Additional charges required for these services)

RECEIPT	
Received the numbered article described on other side.	
SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)	
<i>[Signature]</i>	
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY	
DATE DELIVERED	SHOW WHERE DELIVERED (only if requested)
JAN 27 1969	



and January 19
our letters of
According to
erals, Oil and
; Section 27-527;
n or order of the
not more than
for each day the

By copy of this letter, we notify the Attorney General, State of Arizona, that Dr. C. F. Swain, Crest Oil Company, P. O. Box 57, Alton, Illinois, is in violation of rules and regulations.

Please bring yourself into full compliance with these regulations on or before February 5, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jff
cc: Attorney General, State of Arizona

(not sent)

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

January 24, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Permits #442
#471
#472
#473

Dear Dr. Swain:

Please refer to our letters dated January 14 and January 13 pertaining to the captioned permits. Note our letters of December 9, 1968, and of December 23, 1968. According to the Arizona Revised Statutes; Title 27, Minerals, Oil and Gas; Article 1, Production and Conservation; Section 27-527; Any person who violates any rule, regulation or order of the Commission is subject to a civil penalty of not more than one thousand dollars for each violation and for each day the violation continues.

By copy of this letter, we notify the Attorney General, State of Arizona, that Dr. C. F. Swain, Crest Oil Company, P. O. Box 57, Alton, Illinois, is in violation of rules and regulations.

Please bring yourself into full compliance with these regulations on or before February 5, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:JF
cc: Attorney General, State of Arizona

(not sent)

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

January 24, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Permits #442
#471
#472
#473

Dear Dr. Swain:

Please refer to our letters dated January 14 and January 13 pertaining to the captioned permits. Note our letters of December 9, 1968, and of December 23, 1968. According to the Arizona Revised Statutes; Title 27, Minerals, Oil and Gas; Article 1, Production and Conservation; Section 27-527; Any person who violates any rule, regulation or order of the Commission is subject to a civil penalty of not more than one thousand dollars for each violation and for each day the violation continues.

By copy of this letter, we notify the Attorney General, State of Arizona, that Dr. C. F. Swain, Crest Oil Company, P. O. Box 57, Alton, Illinois, is in violation of rules and regulations.

Please bring yourself into full compliance with these regulations on or before February 5, 1969.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
cc: Attorney General, State of Arizona

(not sent)

442

January 16, 1969

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Sporlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Dear Dr. Swain:

We note that the captioned well is in temporary abandoned status until 4-1-69, but you are to submit our Form #25, Sundry Notices and Reports on Wells, monthly. Please submit a Form #25 detailing activities from December 2 through December 31, 1968, inclusive. We also need this Form reporting activities from January 1 through January 15, 1969.

You were informed of this matter by our letter dated December 9. Please honor the requests of this Commission.

Yours truly,

James A. Lambert
Administrative Assistant

jf

December 23, 1968

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Crest-Arizona Helium #1 Santa Fe
T20N, R27E, G & SRM
Sec. 25: SE/4 SE/4
Apache County, Arizona
Permit #471

Crest-Arizona Helium #8X Santa Fe
T20N, R27E, G & SRM
Sec. 25: SE/4 NW/4
Apache County, Arizona
Permit #473

Dear Dr. Swain:

We are still awaiting our form #23, Sundry Notices and Reports on Wells, for the Crest Oil #1 Spurlock, Permit #442. This form must be submitted monthly even though the well is in temporary abandonment. We also require Completion Reports on the #1 and #8X wells. These forms were enclosed in our letter of December 9, 1968. Your cooperation will be appreciated.

Yours truly,

James A. Lambert
Administrative Assistant

jl

442

December 9, 1968

Dr. C. F. Swain
Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Crest-Arizona Helium #1 Santa Fe
T20N, R27E, G & SRM
Sec. 25: SE/4 SE/4
Apache County, Arizona
Permit #471

Crest-Arizona Helium #8X Santa Fe
T20N, R27E, G & SRM
Sec. 25: SE/4 NW/4
Apache County, Arizona
Permit #473

Dear Dr. Swain:

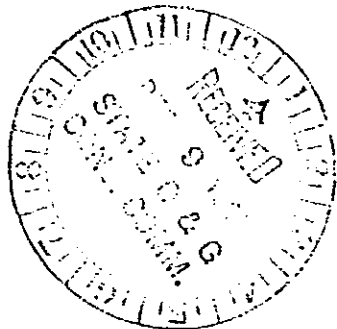
It seems our letters crossed in the mails and we did receive your letter and various forms this date. We are returning an approved copy of the Sundry Notices and Reports on Wells in which you asked that the Crest Oil #1 Spurlock be in temporary abandon status. This status is effective from this date until 4-1-69. You are reminded that our Form #25, Sundry Notices and Reports on Wells must be submitted monthly even though the well is in temporary abandonment. We also require Completion Reports on the #1 and #8X Santa Fe Wells. These forms are enclosed for your convenience.

Yours truly,

James A. Lambert
Administrative Assistant
jf
Enc.

442

C. F. SWAIN

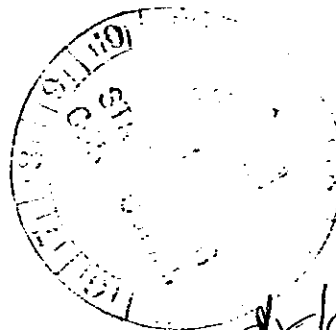


CREST OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

12/5/68



John Bannister, Executive Secretary
Arizona Oil and Gas Conservation Commission
1624 West Adams Rm 202
Phoenix, Arizona 85007

1 A-31-69

Dear Mr. Bannister:

Enclosed please find Form 25 Sundry Notices and Reports on Wells on the Crest Arizona Helium #1 Santa Fe, #2 Santa Fe, #8-X Santa Fe, and also the Crest-Spurlock #1.

Please note that the #8-X was hooked up to the pipe line 10/29/68; #1 ready for pipe line (as soon as line is brought to well); #2 is on the pump in an effort to get out as much water as necessary to allow gas to come in; Crest-Spurlock requested additional time to see if gas will come to well bore, to help determine if additional work is warranted on lease block....also awaiting Bureau of Mines analysis of sample of gas from Supai which might also help above determination. (Hate to be hasty in condemning a large lease block on one Test Well, if any evidence exists at all to warrant additional work.)

I have spoken to Dick McDonald since I last talked to you and relayed your request that he inform you right away as to when the Navajo Springs connection was made to their pipe line.

Along with the Sundry Notices on each well, I am enclosing their respective electric logs, and copies of all test data as taken.

Due to lost circulation problems, it was not possible to Drill Stem Test or Core the #1 Santa Fe.

The same is true of the #2 Santa Fe as relates to the Coconino. As relates to the Shinarump, the well ran 100 feet lower than the #8-X and our Geologist Ed Clement had great difficulty in trying to decide just when to start coring. Finally in desperation, we went in with the core barrel, but recovered nothing but shale. When the true Shinarump sand started showing in the samples, it was too late. The shale corings we did not even send in for analysis as there was nothing to analyze.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

442

Memo: File
From: J. Bannister 11-21-68

Crest Oil #1 Spurlock
Permit #442

Was contacted by Dr. Swain November 20, 1968, requesting permission to re-enter this well, perforate, and test the Shinarump. Dr. Swain reported that the hole contains 4 $\frac{1}{2}$ " casing to 1602 feet in a 6 $\frac{1}{4}$ " hole. This casing is cemented. The Suipai was fracked with 18,000 gallons of water, 16,000 pounds of sand, and swabbed. No return. Perforations for this test were from 1460 to 1546'. Desires to set bridge plug at 1020'. Perforate at 1010' and squeeze with cement. 50 sacks of 50-55. Top of Shinarump 920'. Will test Shinarump. Verbal permission given this date.

November 1, 1968

Mr. Ben Blanke
8553 Orchard Avenue
University City, Missouri 63132

Re: Arizona Oil and Gas Lease 11380
17 North - 26 East: Section 10, SW/4NE/4
Section 12, S/2

Dear Mr. Blanke:

Please be advised that the captioned lease is now held by
Crest Oil Company, Alton, Illinois.

I am enclosing a small white map whereon this lease is shown
in red. The nearest well location is in Section 3 of Town-
ship 17 North, Range 26 East. This well is in a temporarily
abandoned status and has not as yet been completed. There
is no production in this township and range as of this time.

I am further enclosing a larger blue map wherein by township
and range is shown in red the location of this lease. You
will notice to the north and northeast two black xs. These
indicate the closest drilling to this lease at this particu-
lar time. The drilling in these areas has not as yet resulted
in production.

There is no permit to drill outstanding on this specific lease.
Should you have any further questions, please advise.

Very truly yours,

John Bannister
Executive Secretary
mr
encls

442

GENERAL INSURANCE

REAL ESTATE

SALES

LOANS

NOTARY PUBLIC

"DEAL WITH BLANKE"



Ben Blanke

REALTY

Re: State of Arizona oil &
Gas Lease # 11380

PHONE

PHONE

ADDRESS

CITY

STATE

8553 Orchard
University City, Mo.
63132

30 Oct. 1968

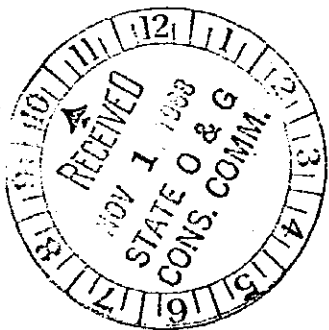
"SMOOTH SKATING"

Oil + Gas Conservation Commission,
Room 202,
Capitol Annex East,
Phoenix, Arizona 85007

Gentlemen:

I am a 5% Royalty holder
in the above mentioned Lease # 11380.

Please advise if a drilling
permit or permits or possible production
has been made to date on the
Arizona oil & Gas Lease no. 11380.



Yours Truly

Ben Blanke

8553 ORCHARD AVE,
UNIVERSITY CITY, MO.

63132

C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

Navajo, Arizona

PHONE 462-5346

October 24, 1968

John Bannister, Exec Secy
Arizona O & G Conservation Comm
1624 W. Adams
Phoenix, Arizona 85007

Dear Mr. Bannister:

In answer to your letter of October 22nd, enclosed find reports as requested, and also report requested by Mr. Lambertin his letter dated 10/17/68.

I am sorry if we have not been reporting progress frequently enough and will do my best to complete forms as required when due.

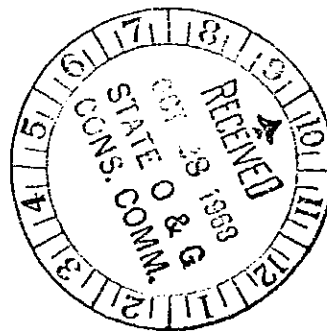
My only excuse is that I arise at 5:30 and after breakfast with Ed and crew I go to the field and generally don't get back to trailer house until after dark. We are doing our best to get as much work done as possible before the weather turns bad, and also office facilities leave a lot to be desired.

Samples and logs are being furnished practically as soon as obtained, and we will forward copies of core and DST reports as soon as we get them.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

(4)
P.S. Navajo Address is:
C. F. Swain
P. O. Box 4
Navajo, Arizona 86509
Phone is: 688-2914



442, 471, 472, 473

October 17, 1968

Mr. C. F. Swain
Crest Oil Company
Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Dear Mr. Swain:

Recd. 10/28/68
Please submit Form #25, Sundry Notices and Reports on Wells, advising this office of the current situation. Our records indicate that your request for temporary abandonment status until October 15, 1968, was approved by this office.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

August 23, 1968

Mr. C. F. Swain
Crest Oil Company
Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
T17N, R26E, G & SRM
Sec. 3: SW/4 NE/4
Apache County, Arizona
Permit #442

Dear Mr. Swain:

We received form No. 25, Sundry Notices And Reports On Wells,
you completed on June 25, 1968. Please submit form No. 25
advising this office of the current situation.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

TA until 10/15/68

9/4/68

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



CASPER, WYOMING
Bob Fitzgerald
124 No. Wolcott St.
234-6921

DEAR MR. BANNISTER,

ENCLOSED AMBE THE LATEST PRINTS YOU SENT US.
MAY I NOW GET THE FOLLOWING?;

MIDLAND, TEXAS
David Clark
105 West Wall
MU 2-0591

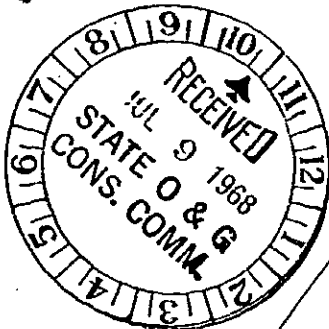
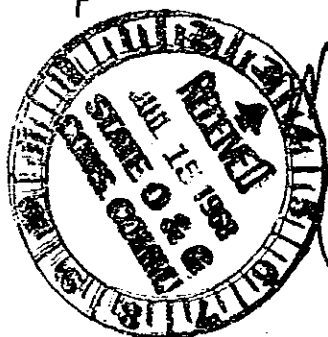
CREST OIL # 1 SPURLOCK
AMERADA-STANOLIND # 1 BLACK MTN.
DR. CREED CHERRY
EL PASO # 2 WATER WELL
GLENN OIL # 1 STATE
JONES ET AL # 1 LARIMORE

APACHE COUNTY *still tight*
PINAL #E
CHOCISE #E
MARICOPÍ #E
SANTA CRUZ COUNTY E (Hickman)

IN THE FUTURE, WE WILL NEED ONLY THE MECHINAL LOGS
ON THE WELLS. YOU NEED NOT SEND THE SAMPLE LOGS.

SINCERE THANKS,

*Attached is a copy of the
log release for the Crest #1
Spurlock signed by Mr. Swain.
Would appreciate if you could
send their logs also. If you could
thanks,*



*1E of 11-26-67
1-GR of 12-5-67
BHC-5 of 12-5-67
Temp of 5-30-68
Radioactivity of 5-30-68
Mailed 7-15-68
Ret 7-23-68*

4/42

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



CASPER, WYOMING
Bob Fitzgerald
124 No. Wolcott St.
234-6921

Crest Oil Co.
Box 57
Alton, Illinois

Reply to:

MIDLAND, TEXAS
David Clark
105 West Wall
MU 2-0591

Gentlemen,

May we release the electrical, radioactivity, and/or sonic surveys run on the:

1 Spurlock
Wildcat
3-17N-26E
Apache, Arizona

If these surveys are satisfactory to release, please sign the authorization below and return in the enclosed envelope. Two complimentary copies of each log released will be sent you.

Thank you for your cooperation.

Very truly yours,

ROCKY MOUNTAIN WELL LOG SERVICE CO.

By:

RELEASED TO: Ted Strickland
ROCKY MOUNTAIN WELL LOG SERVICE CO.

Signature of authorized official

(C. F. Swain, Owner)
Crest Oil Company

We would further appreciate your checking the logging company, or companies, which logged the above well.

☒ Schlumberger ☐ Birdwell ☐ McCullough
☐ Lane Wells-Elgen ☐ B. J. Service ☐ OWP
☐ Welex ☐ P. G. A. C. ☐ Mercury
☐ Wireline ☐ Western ☒ Other
☐ Not Logged

442

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

June 25, 1968

Oil and Gas Conservation Commission
State Of Arizona
1624 W. Adams Rm 202
Phoenix, Arizona 85007

Attention: John Bannister, Executive Secretary

Dear Mr. Bannister:

Thank you for your letter written June 21, 1968 requesting my written report on progress of completion operations on the Crest-Spurlock #1 well, SW NE 3-17-26E, Apache Co., Permit #442.

I am enclosing herewith a photocopy of the details of the completion work just as they were kept daily as the work was being done, and also a photocopy of a data sheet showing starting date, completion date, casing program, and Electric logs run.

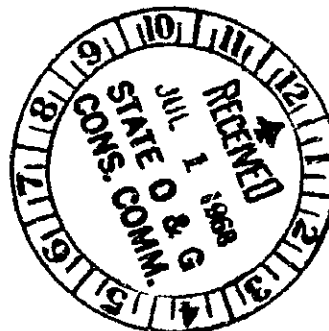
I enclose also a Form #25 Sundry Notice outlining additional completion ^{work} proposed, same to be commenced approximately August 15, 1968.

Would you please acknowledge receipt of information enclosed, and verify permission for temporary abandonment which was given orally via telephone just prior to completion date (June 2, 1968)

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



June 21, 1968

Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Re: Crest Oil Spurlock #1
SW NE 3-17-26E
Apache County
Permit 442

Gentlemen:

May we have your written report of the progress of
your operations from the date resumption.

Very truly yours,

John Bannister
Executive Secretary
jr

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

May 18, 1968

Crest Oil Company
Navajo Field Office
c/o R. Ted Spurlock
Navajo, Arizona

John Bannister, Executive Secretary
Arizona Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Re: Crest Oil #1 Spurlock
SW NE 3-17N-26E, Apache Co., Ariz.
Permit 442

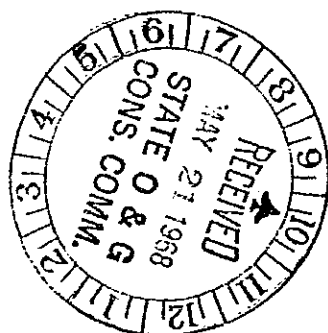
Dear John:

As directed in your letter of April 10th, I wish to inform the commission that we have resumed work on the above captioned well, and completion efforts will be attempted as outlined in the attached Sundry Notices report, Form No. 25.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs



April 10, 1968

Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Re: Crest Oil #1 Spurlock
SW NE 3-17N-26E, Apache County, Arizona
Permit 442

Gentlemen:

In response to your letter of March 28, 1968, this Commission grants permission to continue captioned well in a temporarily abandoned status to expire June 30, 1968. Operations should be substantially underway or the well plugged and abandoned within that time.

This Commission should be notified when your operations are resumed.

Very truly yours,

John Bannister
Executive Secretary
mr

C.F. SWAIN

Crest
OIL COMPANY
P. O. BOX 57
ALTON, ILLINOIS 62002
PHONE 462-5346

March 28, 1968

John Bannister, Executive Sec.
Oil & Gas Conservation Commission
State Of Arizona
Phoenix, Arizona 85007

Re: Crest-Spurlock #1, SW NE 3-17N-26E,
Apache Co., Ariz., Permit 442,
continuation of temporarily abandoned status.

Dear John:

Operations have not yet been resumed on captioned well
and I request permission to continue the temporarily abandoned status.

My present estimate of the date by which I will be able to
resume operations is May 1st.

Certain contractual obligations remain to be completed in
the basic agreement between Crest and Apache Drilling Company which
will require the additional time, and I do not wish to commence well
completion operations until performance under the contract is in order.

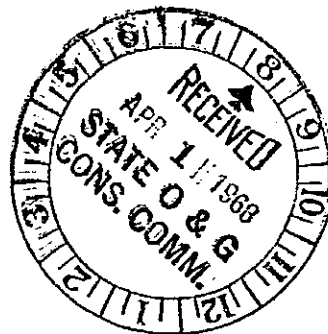
Please advise.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

CFS:fs

OK
give until
6-30-68



March 25, 1968

Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Attention: Dr. C.F. Swain

Re: Crest Oil #1 Spurlock
SW NE 3-17N-26E, Apache County, Arizona
Permit 442

Gentlemen:

Sundry Report of January 29, 1968 reports captioned well was temporarily abandoned with verbal permission from this Commission, until re-commencement of operations approximately February 15-20, 1968.

If operations have been resumed it of course is necessary that we be notified and a progress report submitted.

If it is your desire to continue this well in a temporarily abandoned status, it will be necessary that you advise us of your plans and to request permission to do so.

Very truly yours,

John Bannister
Executive Secretary
mr

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

January 29, 1968

John Bannister, Executive Secretary
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Re: Crest-Spurlock #1, SW NE 3-17N-26E, Apache
Co., Arizona, Permit #442

Dear John:

I sincerely apologize for the tardiness of my response to your letter dated January 3rd concerning the filing of information on the above captioned well.

Since returning to Alton following the drilling and logging and temporary cessation of operation on the well, I have been unbelievably swamped with work, and am still far from caught up. Work load combined with the usual Holiday Season slow-down, flu, extreme weather at Navajo and surrounding area, etc. have all combined to slow up our timetable on progress plans. In addition to these things, the assigning to Crest of acreage earned has been unbelievably slow and involved, and has to be completed. Apache's progress in this department has been slowed and complicated by changes in management, ownership etc as you probably know.

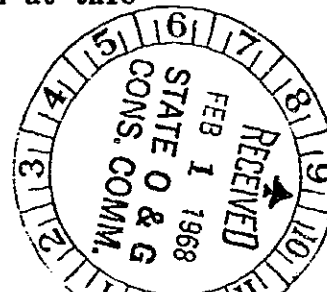
In any event, though slowed by above factors, progress is being made and plans formulated.

For now, I am enclosing the Sundry report as requested in your letter of January 3rd, copies of all Electric Logs run, and a copy of Ed Clement's (our Geologist) very complete report on the well to date. Hope that this report will supplement the Sundry report Form No. 25 in a satisfactory manner.

I would prefer that information still be kept confidential until we have been able to finish testing, and either completing as a Helium producer, or plugging same as a dry hole.

Please advise if additional information is desired at this time.

Sincerely yours,
C. F. Swain
C. F. Swain
Crest Oil Company



CFS:fs

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM

W. P. MARSHALL
CHAIRMAN OF THE BOARD

R. W. McFALL
PRESIDENT

SYMBOLS

DL = Day Letter
NL = Night Letter
LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

716P PST JAN 30 68 LA378 SA196

S LLJ341 NL PD ALTON ILL 30

JOHN BANNISTER

EXECUTIVE SECRETARY ARIZONA OIL AND GAS CONSERVATION COMMISSION

1624 WEST ADAMS ROOM 202 PHOENIX ARIZ

RESPONSE TO YOUR LETTER OF JANUARY 3 WITH RESPECT TO CREST

#1 SPURLOCK WELL WILL BE COMPLETED AND PLACED IN THE MAIL TONIGHT

I REGRET NOT ANSWERING A LETTER OF TRANSMITTAL WILL ACCOMPANY

REPORTS SINCERELY YOURS

C F SWAIN THE CREST OIL CO.

January 3, 1968

Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Attention: Dr. C.F. Swain

Re: Crest Oil #1 Spurlock
SW NE 3-17N-26E, Apache County, Arizona
Permit 442

Gentlemen:

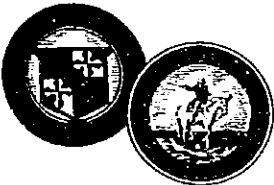
It is our understanding the captioned well has been completed. However, you have failed to file any information with this Commission.

It will be necessary that you file a sundries report showing the complete history (progress report) of this well, together with copies of the logs, application to plug, plugging record, and well completion report. Samples were delivered to this office by Mr. Charles Freesh.

Your earliest cooperation will be appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr
enc: Form 25, 9, 10, 4



MARYLAND CASUALTY COMPANY

CHARLES H. PETERSON, PRESIDENT

The Maryland American General Group: Maryland Casualty Company - American General Insurance Company - American General Life Insurance Company - American General Life Insurance Company of Delaware - American General Life Insurance Co. of Oklahoma - Assurance Company of America - Hawaiian Life Insurance Co., Ltd. - Maine Bonding and Casualty Co. - Maryland American General Insurance Co. - National Standard Insurance Co. - Northern Insurance Co. of N. Y. - Patriot Life Insurance Co.

WILBUR J. BUFFINGTON
RESIDENT MANAGER

Del Webb's TowneHouse Tower, 100 West Clarendon - Phoenix, Arizona 85013

November 20, 1967

LOUIS V. RHUE, JR.
CLAIM MANAGER

277-4711

Mr. John Bannister
Executive Secretary
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Dear Mr. Bannister:

RE: Bond No. 94-109810
C. F. Swain, dba: Crest Oil Company

At the request of our St. Louis Office, we are forwarding herewith properly executed and countersigned Oil Well Bond for filing with the State.

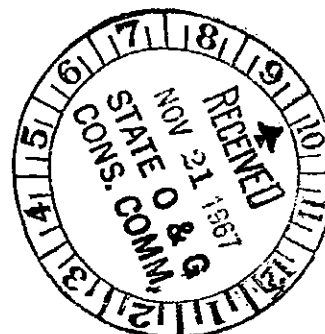
Same is enclosed, and we trust it will be found in order.

Yours very truly,

Sam Conklin
Samuel E. E. Conklin
Manager, Bond Department

SEEC:cam
Encl.

cc: St. Louis Bond Department



CLASS OF SERVICE
This is a fast message
unless its deferred char-
acter is indicated by the
proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL
CHAIRMAN OF THE BOARD

R. W. McFALL
PRESIDENT

SYMBOLS
DL=Day Letter
NL=Night Letter
LT=International
Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

1011A PDT NOV 20 67 LA131

DEC162 DE GCA018 PD GRANITE CITY ILL 20 1141A CST

JOHN BANNISTER, EXECUTIVE SECY OIL & GAS CONSERVATION COMM

1624 WEST ADAMS PHOENIX ARIZ 85019 -

MARYLAND CASUALTY INSURANCE ISSUED \$5000 PERFORMANCE BOND NBR

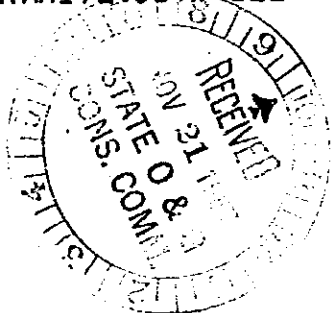
94-109810 IN FAVOR ARIZONA ON BEHALF C F SWAIN CREST OIL ON

NOVEMBER 16TH STOP SAME WILL BE DELIVERED BY RESIDENT PHOENIX

AGENT

ROBERT CRUCE MARYLAND CASUALTY ILLINOIS MERCANTILE AGENCY

3210 NAMEOKI RD GRANITE CITY ILL
(52).



442

71-5161
8811384
11372



1967 NOV 20 AM 11 35

1967 NOV 20 AM 11 32

C- 56679



NOVEMBER 20, 1967
11:55 a.m.

TELEGRAM FROM: ROBERT CRUCE
MARYLAND CASUALTY
ILLINOIS MERCANTILE AGENCY
3210 NAMEOKI RD
GRANITE CITY, ILL

JOHN BANNISTER
ARIZ OIL & GAS CONSERVATION COMMISSION
1624 W ADAMS
PHOENIX

MARYLAND CASUALTY INSURANCE ISSUED FIVE THOUSAND DOLLAR PERFORMANCE
BOND NUMBER 94-109810 IN FAVOR ARIZONA ON BEHALF C F SWAIN, CREST
OIL, ON NOVEMBER 16. SAME WILL BE DELIVERED BY RESIDENT PHOENIX
AGENT.

Send Appl to Navajo Co Ted Spurlock
Appl in transit - should it not be
in by 11-25-67 verbal permission given
to speed

C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

November 18, 1967

John Bannister, Executive Secretary
Arizona Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Dear John:

Enclosed please find application for permit to drill
Crest-Spurlock #1, SW/4 of NE/4 Sec 3-17N-R26E, Apache Co., Arizona.

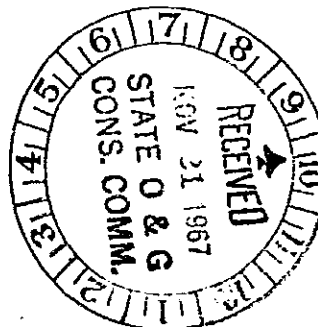
The bond is being sent direct to you from the resident
agent of Maryland Casualty Company in Phoenix.

I will call the St. Louis office of Maryland Casualty Monday
morning and find out the status... at what stage of completion it is in
and anticipated arrival time in the Commission office. If it appears
bond might possibly not arrive prior to scheduled commencement of drilling
time, I will have them call you. I too will probably have to call you
to find out if permit is issued.

Sincerely yours,

C. F. Swain
C. F. Swain
Crest Oil Company

copy: Maryland Casualty Company
Pierce Building
St. Louis, Missouri



C. F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002

PHONE 462-5346

November 12, 1967

Illinois Mercantile Agency Inc.
3210 Nameoki Road
Granite City, Illinois 62040

Gentlemen:

Enclosed please find Application for Performance Bond in favor of the State Of Arizona in the amount of \$5,000.00, with C. F. Swain d/b/a Crest Oil Company as principal, and Maryland Casualty Company as Surety. Please note that the filing of two copies is requested.

Said Bond to cover the drilling of Well #1 on the Spurlock & Sons ranch in Apache County, Arizona, and said well to be named and hereinafter referred to as Crest-Spurlock #1.

You presently have our most recent audit report as prepared by our accountant C. J. Schlosser & Company.

Will you please do all you can to expedite the preparation and delivery of this Bond to me, as Crest is faced with a drilling commencement of November 20th, and drilling cannot be commenced until a permit has been issued by the Oil & Gas Conservation Commission, State Of Arizona. The Commission of course cannot issue the permit until they have received the Bond. In this connection, after the Bond has been signed by Maryland's Arizona resident Agent, please have him send the Bond direct to:

John Bannister, Executive Secretary
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Please acknowledge.

Sincerely yours,

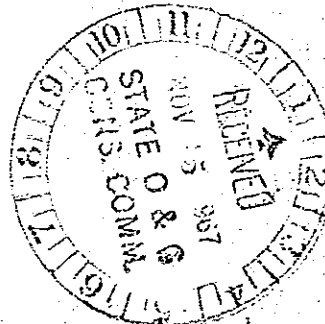
C. F. Swain
Crest Oil Company

CFS:fs

Copy: John Bannister

Dear John,

Hope I am doing the right thing to expedite issuance of permit. I will forward organization report form no. 1, and Application for Permit To Drill form No. 3, as soon as I receive Surveyor's Plats,



November 9, 1967

Dr. C.F. Swain
Crest Oil Company
P.O. Box 57
Alton, Illinois 62002

Dear Dr. Swain:

In response to your letter of November 5, 1967, we have mailed under separate copy a copy of the Rules and Regulations showing the ammendment to Rule 102. The forms you requested were included in this mailing.

I would like to bring to your attention that currently your shut-in wells are covered by individual \$2,500 bonds. Of course should any of these wells be activated, it will be necessary to increase the bond coverage to comply with the current Rules and Regulations.

Inquiries concerning workmen's compensation should be addressed to Industrial Commission, 1616 W. Adams, Phoenix, Arizona 85007, to the attention of Mr. Weston W. Thew, Manager Underwriting.

We are looking forward to seeing you in Arizona again. And if there is any way that this office may be of help to you, please let us know.

Sincerely,

John Bannister
Executive Secretary
mr

C.F. SWAIN

Crest
OIL COMPANY

P. O. BOX 57
ALTON, ILLINOIS 62002
PHONE 462-5346

November 5, 1967

John Bannister, Executive Secretary
Arizona Oil and Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Dear John:

As time grows closer to commence our Granite Test Well with Apache Drilling Company, I am trying to pick up the loose ends and get all set.

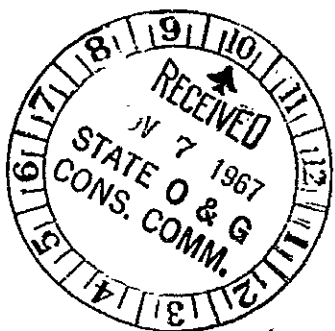
A recent check with my Insurance Company reveals that I am covered for liability in Arizona, but not under Workmen's Comp as Arizona is a "State Fund" State. Although I do not presently have any Arizona employees, I want to be sure that I am complying with all State regulations; and if you have the address of the State Insurance Fund I would appreciate it if you would pass it along to me.

I have a Copy of Arizona Rules and Regulations as certified by you 4th of October 1965. If by chance there are more recent ones I would like to have a copy.

John would you please forward me a few each of forms to drill a well.....Application for a Permit to Drill, Bond Application, and whatever I need now. Thank you very much.

Sincerely yours,

C.F. Swain
C. F. Swain
Crest Oil Company



*Original report
7-9-60
Swain's file crest
probably no change*

*Individual
\$7,500 bonds
= 110
134
204*

*Rules and
Forms mailed
10-9-67*